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For purposes of reference, all Proclamations, Government Notices, General Notices and Board Notices published are included in the following table of contents which thus forms a weekly index. Let yourself be guided by the gazette numbers in the righthand column:

Weekly Index

No.	Page No.	Gazette No.
PROCLAMATION		
29 Tradisionele Gesondheidspraktisyns Wet (22/2007) :Inwerkingtreding van enige artikels van die Wet.....	4	41945
GOVERNMENT NOTICE		
Agriculture, Forestry and Fisheries, Department of		
R.994 Marketing of Agricultural Products Act (47/1996) :Continuation of Statutory Measure and Determination of Guideline Prices: Levies relating to Wheat, Barley and Oats	11	41927
Communications, Department of		
995 Electronic Communications Act (36/2005) :Notice Inviting Comments on Policy Directive Regarding the Introduction of Digital Sound Broadcasting in South Africa	15	41928
Economic Development Department		
R.1006 International Trade Administration Act (71/2002) :International Trade Administration Commission of South Africa: Export Control: Extension of the Price Preference System on the Exportation of Ferrous and Non-Ferrous Waste and Scrap: Price Preference System.....	4	41938
1013 Competition Act (89/1998) :Notice for designation of the Petroleum Industry in terms of the Act.....	4	41941
1014 Competition Act, 1998 :Request for public comment on the designation of the Petroleum Industry in terms of the Act	5	41941
Economic Development, Department of		
R.1012 International Trade Administration Act (71/2002) :Amended Export Control Guidelines on the Exportation of Ferrous and Non-Ferrous Waste and Scrap	4	41940
Energy, Department of		
R.1022 Petroleum Products Act (120/1977) :Amendment of the regulations in respect of petroleum products.....	3	41951
R.1023 Petroleum Products Act (120/1977) :Maximum Retail Price for Liquefied Petroleum Gas.....	5	41951
R.1024 Petroleum Products Act (120/1977) :Regulations in respect of the single maximum national retail price for illuminating paraffin.....	7	41951

Alle Proklamasies, Goewermentskennisgewings, Algemene Kennisgewings en Raadskennisgewings gepubliseer, word vir verwysingsdoeleindes in die volgende Inhoudopgawe ingesluit wat dus weeklikse indeks voorstel. Laat self deur die Koerantnommers in die regterhandse kolom lei:

Weeklikse Indeks

No.	Bladsy No.	Koerant No.
PROKLAMASIES		
29 Tradisionele Gesondheidspraktisyns Wet (22/2007) :Inwerkingtreding van enige artikels van die Wet.....	5	41945
GOEWERMENTSKENNISGEWINGS		
Landbou, Bosbou en Visserye, Departement van		
R.994 Wet op Bemarking van Landbouprodukte (47/1996) :Voortsetting van Statutêre Maatreël en Bepaling van Riglynprys: Hef-fing betreffende Koring, Gars en Hawer....	17	41927
Kommunikasie, Departement van		
995 Electronic Communications Act (36/2005) :Notice Inviting Comments on Policy Directive Regarding the Introduction of Digital Sound Broadcasting in South Africa	15	41928
Ekonomiese Ontwikkeling Departement		
R.1006 International Trade Administration Act (71/2002) :International Trade Administration Commission of South Africa: Export Control: Extension of the Price Preference System on the Exportation of Ferrous and Non-Ferrous Waste and Scrap: Price Preference System.....	4	41938
1013 Competition Act (89/1998) :Notice for designation of the Petroleum Industry in terms of the Act.....	4	41941
1014 Competition Act, 1998 :Request for public comment on the designation of the Petroleum Industry in terms of the Act	5	41941
Ekonomiese Ontwikkeling, Departement van		
R.1012 International Trade Administration Act (71/2002) :Amended Export Control Guidelines on the Exportation of Ferrous and Non-Ferrous Waste and Scrap	4	41940
Energie, Departement van		
R.1022 Petroleum Products Act (120/1977) :Amendment of the regulations in respect of petroleum products.....	3	41951
R.1023 Petroleum Products Act (120/1977) :Maximum Retail Price for Liquefied Petroleum Gas.....	5	41951
R.1024 Petroleum Products Act (120/1977) :Regulations in respect of the single maximum national retail price for illuminating paraffin.....	7	41951

No.	Page No.	Gazette No.	No.	Page No.	Gazette No.
Financial Services Board			Raad op Finansiële Dienste		
996 Short-Term Insurance Act, 1998 :Amendment of Policyholder Protection Rules Prescribed under Section 55.....	22	41928	996 Short-Term Insurance Act, 1998 :Amendment of Policyholder Protection Rules Prescribed under Section 55.....	22	41928
997 Long-Term Insurance Act, 1998 :Amendment of Policyholder Protection Rules Prescribed under Section 62.....	38	41928	997 Long-Term Insurance Act, 1998 :Amendment of Policyholder Protection Rules Prescribed under Section 62.....	38	41928
Home Affairs, Department of			Binnelandse Sake, Departement van		
998 Births and Deaths Registration Act (51/1992) :Alteration of surnames in terms of section 26 of the Act.....	58	41928	998 Births and Deaths Registration Act (51/1992) :Alteration of surnames in terms of section 26 of the Act.....	58	41928
999 Births and Deaths Registration Act (51/1992) :Alteration of Forenames.....	70	41928	999 Births and Deaths Registration Act (51/1992) :Alteration of Forenames.....	70	41928
Independent Communications Authority of South Africa			Onafhanklike Kommunikasie-owerheid van Suid-Afrika		
1000 Independent Communications Authority of South Africa Act (13/2000) :Notice of intention to conduct and inquiry in terms of section 4B of the Act: Unreserved Postal Services.....	77	41928	1000 Independent Communications Authority of South Africa Act (13/2000) :Notice of intention to conduct and inquiry in terms of section 4B of the Act: Unreserved Postal Services.....	77	41928
R.1016 Electronic Communications Act (36/2005) :Amendment of the Call Termination Regulations, 2014.....	4	41943	R.1016 Electronic Communications Act (36/2005) :Amendment of the Call Termination Regulations, 2014.....	4	41943
1017 Independent Communications Authority of South Africa Act (13/2000) :Inquiry into the Role and Responsibilities of the Independent Communications Authority of South Africa in Cybersecurity.....	4	41944	1017 Independent Communications Authority of South Africa Act (13/2000) :Inquiry into the Role and Responsibilities of the Independent Communications Authority of South Africa in Cybersecurity.....	4	41944
1021 Electronic Communications Act (36/2005), as amended :Number Portability Regulations.....	4	41949	1021 Electronic Communications Act (36/2005), as amended :Number Portability Regulations.....	4	41949
Justice and Constitutional Development, Department of			Justisie en Staatskundige Ontwikkeling, Departement van		
1025 Child Justice Amendment Bill, 2018 :Publication of explanatory summary of the Act.	4	41952	1025 Child Justice Amendment Bill, 2018 :Publication of explanatory summary of the Act.	4	41952
National Treasury			Nasionale Tesourie		
1015 Long-Term Insurance Act, 1998 :Amendment of Regulations made under Section 72.....	4	41942	1015 Long-Term Insurance Act, 1998 :Amendment of Regulations made under Section 72.....	4	41942
1018 Short-term Insurance Act, 1998 :Amendment of Regulations made under Section 70.....	4	41946	1018 Short-term Insurance Act, 1998 :Amendment of Regulations made under Section 70.....	4	41946
1019 Financial Sector Regulation Act (9/2017) :Amendment of notice of commencement and commencement of certain provisions	4	41947	1019 Financial Sector Regulation Act (9/2017) :Amendment of notice of commencement and commencement of certain provisions	4	41947
1020 Insurance Act (18/2017) :Effective date of amendment of certain sections referred to in Schedule 1 of the Act.....	8	41947	1020 Versekeringswet (18/2017) :Effektiewe datum van wysiging van sekere artikels in Bylae 1 van die Wet.....	9	41947
1079 Appropriations Act (4/2018) :Publication for information: Allocations for drought relief funding for direct transfer to provinces and municipalities approved in terms of section 6(1) of the Act.....	4	41958	1079 Appropriations Act (4/2018) :Publication for information: Allocations for drought relief funding for direct transfer to provinces and municipalities approved in terms of section 6(1) of the Act.....	4	41958
South African Revenue Service			Suid-Afrikaanse Inkomstediens		
R.1007 Customs and Excise Act, 1964 :Amendment of Schedule No. 1 (No. 1/1/1608).....	4	41939	R.1007 Customs and Excise Act, 1964 :Amendment of Schedule No. 1 (No. 1/1/1608).....	5	41939

No.	Page No.	Gazette No.	No.	Page No.	Gazette No.
R.1008 Doeane- en Aksynswet, 1964 :Wysiging van Bylae No. 2 (No. 2/3/28).....	6	41939	R.1008 Doeane- en Aksynswet, 1964 :Wysiging van Bylae No. 2 (No. 2/3/28).....	7	41939
R.1009 Doeane- en Aksynswet, 1964 :Wysiging van Bylae No. 2 (No. 2/3/28).....	8	41939	R.1009 Doeane- en Aksynswet, 1964 :Wysiging van Bylae No. 2 (No. 2/3/28).....	9	41939
R.1010 Doeane- en Aksynswet, 1964 :Wysiging van Bylae No. 2 (No. 2/3/29).....	10	41939	R.1010 Doeane- en Aksynswet, 1964 :Wysiging van Bylae No. 2 (No. 2/3/29).....	11	41939
R.1011 Customs and Excise Act, 1964 :Amendment of Schedule No. 2 (No. 2/3/30).....	12	41939	R.1011 Customs and Excise Act, 1964 :Amendment of Schedule No. 2 (No. 2/3/30).....	13	41939

GENERAL NOTICE**Justice and Constitutional Development, Department of**

604 Administration of Estates Act (66/1965) :Unclaimed Funds in terms of section 91 of the Act.....	3	41931
607 Legal Aid South Africa (39/2014) :Notice of tabling in parliament of amendments to the Legal Aid Manual.....	4	41948

Labour, Department of

578 Labour Relations Act, 1995 :Registration of a trade union: Sport Employees Unite (SEU) (LR2/6/2/2766).....	124	41928
579 Labour Relations Act :Erratum for Accreditation of Bargaining Council for the BC for the Grain Industry.....	125	41928

National Treasury

577 Public Finance Management Act, 1999 :Statement of the National Revenue, Expenditure and Borrowings as at 31 August 2018 issued by the DG NT.....	11	41926
--	----	-------

Non-Governmental Organization

605 Estate Agency Affairs Act (112/1976) :Unclaimed monies: Estate Agency Affairs Board.....	358	41931
606 Unclaimed Monies :Randman Beleggings, NCRCP 4788.....	358	41931

Parliament of the Republic of South Africa

617 Anti-Avoidance of Tax Bill, 2018 :Notice of intention to introduce a Private Member's Bill into Parliament and invitation for public comment thereon.....	4	41957
618 Insourcing Bill, 2018 :Notice of intention to introduce a Private Member's Bill into Parliament and invitation for public comment thereon.....	6	41957
619 Liquor Amendment Bill, 2018 :Notice of intention to introduce a Private Member's Bill into Parliament and invitation for public comment thereon.....	8	41957

Rural Development and Land Reform, Department of

580 Restitution of Land Rights Act (22/1994) :That portion of Durban commonly known as Rem of the Farm Buffelsdraai No. 829, Inanda, KwaZulu-Natal.....	130	41928
---	-----	-------

ALGEMENE KENNISGEWINGS**Justisie en Staatskundige Ontwikkeling, Departement van**

604 Administration of Estates Act (66/1965) :Unclaimed Funds in terms of section 91 of the Act.....	3	41931
607 Legal Aid South Africa (39/2014) :Notice of tabling in parliament of amendments to the Legal Aid Manual.....	4	41948

Arbeid, Departement van

578 Labour Relations Act, 1995 :Registration of a trade union: Sport Employees Unite (SEU) (LR2/6/2/2766).....	124	41928
579 Labour Relations Act :Erratum for Accreditation of Bargaining Council for the BC for the Grain Industry.....	125	41928

Nasionale Tesourie

577 Public Finance Management Act, 1999 :Statement of the National Revenue, Expenditure and Borrowings as at 31 August 2018 issued by the DG NT.....	11	41926
--	----	-------

Nie-Regeringsorganisasie

605 Estate Agency Affairs Act (112/1976) :Unclaimed monies: Estate Agency Affairs Board.....	358	41931
606 Unclaimed Monies :Randman Beleggings, NCRCP 4788.....	358	41931

Parlement van die Republiek van Suid-Afrika

617 Anti-Avoidance of Tax Bill, 2018 :Notice of intention to introduce a Private Member's Bill into Parliament and invitation for public comment thereon.....	4	41957
618 Insourcing Bill, 2018 :Notice of intention to introduce a Private Member's Bill into Parliament and invitation for public comment thereon.....	6	41957
619 Liquor Amendment Bill, 2018 :Notice of intention to introduce a Private Member's Bill into Parliament and invitation for public comment thereon.....	8	41957

Landelike Ontwikkeling en Grondhervorming, Departement van

580 Restitution of Land Rights Act (22/1994) :That portion of Durban commonly known as Rem of the Farm Buffelsdraai No. 829, Inanda, KwaZulu-Natal.....	130	41928
---	-----	-------

No.	Page No.	Gazette No.	No.	Page No.	Gazette No.
581 Restitution of Land Rights Act (22/1994) as amended :Portion 12 of the Farm Game Reserve No. 17434.....	131	41928	581 Restitution of Land Rights Act (22/1994) as amended :Portion 12 of the Farm Game Reserve No. 17434.....	131	41928
582 Restitution of Land Rights Act (22/1994), as amended :Portion 10 of the Farm Game Reserve No. 17434.....	132	41928	582 Restitution of Land Rights Act (22/1994), as amended :Portion 10 of the Farm Game Reserve No. 17434.....	132	41928
583 Restitution of Land Rights Act (22/1994) as amended :Various properties.....	133	41928	583 Restitution of Land Rights Act (22/1994) as amended :Various properties.....	133	41928
584 Restitution of Land Rights Act (22/1994) :Various properties	135	41928	584 Restitution of Land Rights Act (22/1994) :Various properties	135	41928
585 Restitution of Land Rights Act (22/1994) :Remainder of Portion 4 of the Farm Petrus Stroom No. 954.....	139	41928	585 Restitution of Land Rights Act (22/1994) :Remainder of Portion 4 of the Farm Petrus Stroom No. 954.....	139	41928
586 Restitution of Land Rights Act (22/1994) :Various properties	140	41928	586 Restitution of Land Rights Act (22/1994) :Various properties	140	41928
587 Restitution of Land Rights Act (22/1994) :Various properties	142	41928	587 Restitution of Land Rights Act (22/1994) :Various properties	142	41928
588 Restitution of Land Rights Act (22/1994) :Various properties	144	41928	588 Restitution of Land Rights Act (22/1994) :Various properties	144	41928
589 Restitution of Land Rights Act (22/1994) :Portion 11 of the farm Game Reserve No. 17434	146	41928	589 Restitution of Land Rights Act (22/1994) :Portion 11 of the farm Game Reserve No. 17434	146	41928
590 Restitution of Land Rights Act (22/1994) :Portion 0 (remaining extent) of the Farm Lily Fontein No. 2106, Msinga, KwaZulu-Natal	147	41928	590 Restitution of Land Rights Act (22/1994) :Portion 0 (remaining extent) of the Farm Lily Fontein No. 2106, Msinga, KwaZulu-Natal	147	41928
591 Restitution of Land Rights Act (22/1994), as amended :Erf 4031, Worcester	148	41928	591 Restitution of Land Rights Act (22/1994), as amended :Erf 4031, Worcester	148	41928
592 Restitution of Land Rights Act (22/1994) :Erf 242, Bishops court, City of Cape Town	149	41928	592 Restitution of Land Rights Act (22/1994) :Erf 242, Bishops court, City of Cape Town	149	41928
593 Restitution of Land Rights Act (22/1994) as amended :Erf 46437, Cape Town at Rondebosch, City of Cape Town.....	150	41928	593 Restitution of Land Rights Act (22/1994) as amended :Erf 46437, Cape Town at Rondebosch, City of Cape Town.....	150	41928
594 Restitution of Land Rights Act (22/1994) :Erf 11143, Woodstock and Rem. Erf 11160, Woodstock, City of Cape Town	151	41928	594 Restitution of Land Rights Act (22/1994) :Erf 11143, Woodstock and Rem. Erf 11160, Woodstock, City of Cape Town	151	41928
595 Restitution of Land Rights Act (22/1994), as amended :Various Properties	152	41928	595 Restitution of Land Rights Act (22/1994), as amended :Various Properties	152	41928
South African Reserve Bank			Suid-Afrikaanse Reserwebank		
596 Currency and Exchanges Act (9/1933), as amended :Notice and Order of Forfeiture: Komanani Import and Export Close Corporation (the "Respondent") (Registration No. 2009/138501/23).....	153	41928	596 Currency and Exchanges Act (9/1933), as amended :Notice and Order of Forfeiture: Komanani Import and Export Close Corporation (the "Respondent") (Registration No. 2009/138501/23).....	153	41928
597 Currency and Exchanges Act (9/1933), as amended :Notice and Order of Forfeiture: Emmanuel Okeoghene Imodo.....	154	41928	597 Currency and Exchanges Act (9/1933), as amended :Notice and Order of Forfeiture: Emmanuel Okeoghene Imodo.....	154	41928
598 Currency and Exchanges Act (9/1933), as amended :Notice and Order Forfeiture: Mr Lintao H (the 'Respondent') (Passport number E66296728).....	155	41928	598 Currency and Exchanges Act (9/1933), as amended :Notice and Order Forfeiture: Mr Lintao H (the 'Respondent') (Passport number E66296728).....	155	41928
599 Currency and Exchanges Act (9/1933), as amended :Notice of Order of Forfeiture: Richard Mubiru I.D. No. 7607195844183..	156	41928	599 Currency and Exchanges Act (9/1933), as amended :Notice of Order of Forfeiture: Richard Mubiru I.D. No. 7607195844183..	156	41928

No.	Page No.	Gazette No.	No.	Page No.	Gazette No.
Statistics South Africa			Statistieke Suid-Afrika		
600 Statistics South Africa :Consumer Price Index: August 2018.....	157	41928	600 Statistics South Africa :Consumer Price Index: August 2018.....	157	41928
Trade and Industry, Department of			Handel en Nywerheid, Departement van		
601 International Trade Administration Commission :Initiation: Sunset Review of the anti-dumping duties on garden tools originating in or imported from The People's Republic of China	158	41928	601 International Trade Administration Commission :Initiation: Sunset Review of the anti-dumping duties on garden tools originating in or imported from The People's Republic of China	158	41928
602 International Trade Administration Commission :Customs Tariff Applications: List 07/2018.....	164	41928	602 International Trade Administration Commission :Customs Tariff Applications: List 07/2018.....	164	41928

IMPORTANT NOTICE:

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Contents

<i>No.</i>		<i>Gazette No.</i>	<i>Page No.</i>
GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS			
Agriculture, Forestry and Fisheries, Department of/ Landbou, Bosbou en Visserye, Departement van			
1083	Agriculture, Forestry and Fisheries: Draft Fertilizer Bill	41970	17
Economic Development Department/ Ekonomiese Ontwikkeling Departement			
1084	Competition Act (89/1998): Notice in terms of section 10 (7) of the Act: South African Petroleum Industry Association Granted Conditional Exemption	41970	18
Home Affairs, Department of/ Binnelandse Sake, Departement van			
1085	Births and Deaths Registration Act (51/1992): Government Notice: Draft Refugees Regulations, 2018 and Draft Rules of the Standing Committee	41970	20
Justice and Constitutional Development, Department of/ Justisie en Staatskundige Ontwikkeling, Departement van			
1086	Small Claims Courts Act (61/1984): Establishment of a Small Claims Court for the Area of Soweto and Withdrawal of Government Notice No. 1248 of 14 October 2016.....	41970	82
National Treasury/ Nasionale Tesourie			
1087	Division of Revenue Act (1/2018): Publication of explanatory summary of Division of Revenue Amendment Bill, 2018	41970	83
Public Service and Administration, Department of/ Staatsdiens en Administrasie, Departement van			
1088	Public Service Act (103/1994): Amendment of Public Service Regulations, 2016	41970	84
Rural Development and Land Reform, Department of/ Landelike Ontwikkeling en Grondhervorming, Departement van			
1089	Restitution of Land Rights Act (22/1994), as amended: Amendment of Gazette Notice 1353 of 2007 as contained in Government Gazette Number 30413 in respect of Musingadi, Ndouvhada, Makwatambani and Funyufunyu Communities Land Claim.....	41970	87
1090	Restitution of Land Rights Act (22/1994) as amended: Various properties	41970	88
1091	Restitution of Land Rights Act (22/1994) as amended: Various properties	41970	89
1092	Restitution of Land Rights Act (22/1994): Nakab 184 MT	41970	90
1093	Restitution of Land Rights Act (22/1994): Various Properties.....	41970	91
Small Business Development, Department of/ Kleinsake-ontwikkeling, Departement van			
1094	National Small Enterprise Act (102/1996): Call For Written Submissions from stakeholders bodies and members of the public on the update of Schedule 1 of NSEA.....	41970	94
Trade and Industry, Department of/ Handel en Nywerheid, Departement van			
1095	Companies Act, 2008: Practice Note 1 of 2018: Qualifications of Practitioners in terms of section 138 (1).....	41970	99
1096	Companies Regulation, 2011: Practice No. 2 of 2018: Subjoining Jurisdiction of Incorporation for External Companies	41970	101
Water and Sanitation, Department of/ Water en Sanitasie, Departement van			
1097	National Water Act (36/1998): Reserve determination of Water Resources for the Mvoti to Umzimkulu Catchments	41970	102

GENERAL NOTICES • ALGEMENE KENNISGEWINGS

Agriculture, Forestry and Fisheries, Department of/ Landbou, Bosbou en Visserye, Departement van			
626	Subdivision of Agricultural Land Act (70/1970): Various Properties.....	41970	248
627	Marketing of Agricultural Products Act, 1996 (Act No. 47 of 1996): Establishment of Statutory Measure: Registration of Macadamia Nurseries, Growers, Processors, Consolidators of Nut in Shell, Importers and Exporters of Macadamia Nuts.....	41970	255
628	Marketing of Agricultural Products Act (47/1996): Establishment of Statutory Measure: Records and Returns Relating to Macadamia Trees as well as Domestic Production, Processing, Imports and Exports of Macadamia Nuts ..	41970	261
629	Marketing of Agricultural Products Act (47/1996): Establishment of Statutory Measure and Determination of Levies on Macadamia Nuts.....	41970	268
Economic Development Department/ Ekonomiese Ontwikkeling Departement			
630	Competition Act (89/1998): Competition Tribunal	41970	272

631	Competition Act (89/1998): Notification of Decision to approve merger	41970	273
Education, Department of/ Onderwys, Departement van			
632	Correction Notice: Government Gazette Vol. 639 No. 41887 published on Friday, 7 September 2018, has been erroneously published under the Department of Basic Education instead of Department of Higher Education and Training	41970	273
633	National Qualifications Framework Act, 2008 (Act No. 67 of 2008): Regulations for the Quality Assurance of Private Colleges for Continuing Education and Training, Offering Qualifications registered on the General and further Education and Training Qualifications Sub-Framework, and the Accreditation of Private Assessment Bodies	41970	274
Labour, Department of/ Arbeid, Departement van			
634	Labour Relations Act (66/1995): Notice in terms of section 62 (7) of the Act	41970	326
Rural Development and Land Reform, Department of/ Landelike Ontwikkeling en Grondhervorming, Departement van			
635	Restitution of Land Rights Act (22/1994) as amended: Erf 15854, Cape Town	41970	327
South African Reserve Bank/ Suid-Afrikaanse Reserwebank			
636	Currency and Exchanges Act (9/1993), as amended: Notice and Order of Forfeiture: Kazina Import and Export (Pty) Limited (Registration number 2014/269971/07)	41970	328
637	Currency and Exchanges Act (9/1993), as amended: Notice and Order of Forfeiture: Mr Bilong Zheng	41970	329
638	Currency and Exchanges Act (9/1993), as amended: Notice and Order of Forfeiture: Ms Kanwal Irshad and/or Mr Farhad Hoomer	41970	330
Trade and Industry, Department of/ Handel en Nywerheid, Departement van			
639	International Trade Administration Commission of South Africa: Correction Notice	41970	331

BOARD NOTICES • RAADSKENNISGEWINGS

110	Accounting Standards Board: Invitation to comment on Exposure Draft issued by the Accounting Standards Board	41970	332
111	Agricultural Produce Agents Act (12/1992): Unclaimed Monies payable to Principals of Fresh Produce Agents	41970	333
112	Health Professions Act (56/1974): Rules relating to the payment of fees for accreditation of education and training offered by Education and Training Institutions under the Act	41970	337
113	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Preven Naicker	41970	340
114	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Rishaal Bhojairam	41970	341
115	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Avasha Singh	41970	342
116	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Denver Smith	41970	343
117	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Ganesan Govender	41970	344
118	Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Ernest Munarini	41970	345
119	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Wayne Michael du Plessis	41970	346
120	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: John During	41970	347
121	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Kwgaripane Mashego	41970	348
122	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Neill Ellman	41970	349
123	South African Council for the Architectural Profession Act (44/2000): Disciplinary Tribunal/Misconduct: Wisdom Chishimba	41970	350

Closing times for **ORDINARY WEEKLY** **2018** **GOVERNMENT GAZETTE**

*The closing time is **15:00** sharp on the following days:*

- **28 December 2017**, Thursday for the issue of Friday **05 January 2018**
- **05 January**, Friday for the issue of Friday **12 January 2018**
- **12 January**, Friday for the issue of Friday **19 January 2018**
- **19 January**, Friday for the issue of Friday **26 January 2018**
- **26 January**, Friday for the issue of Friday **02 February 2018**
- **02 February**, Friday for the issue of Friday **09 February 2018**
- **09 February**, Friday for the issue of Friday **16 February 2018**
- **16 February**, Friday for the issue of Friday **23 February 2018**
- **23 February**, Friday for the issue of Friday **02 March 2018**
- **02 March**, Friday for the issue of Friday **09 March 2018**
- **09 March**, Friday for the issue of Friday **16 March 2018**
- **15 March**, Thursday for the issue of Friday **23 March 2018**
- **22 March**, Thursday for the issue of Thursday **29 March 2018**
- **28 March**, Wednesday for the issue of Friday **06 April 2018**
- **06 April**, Friday for the issue of Friday **13 April 2018**
- **13 April**, Friday for the issue of Friday **20 April 2018**
- **19 April**, Thursday for the issue of Thursday **26 April 2018**
- **25 April**, Wednesday for the issue of Friday **04 May 2018**
- **04 May**, Friday for the issue of Friday **11 May 2018**
- **11 May**, Friday for the issue of Friday **18 May 2018**
- **18 May**, Friday for the issue of Friday **25 May 2018**
- **25 May**, Friday for the issue of Friday **01 June 2018**
- **01 June**, Friday for the issue of Friday **08 June 2018**
- **08 June**, Friday for the issue of Friday **15 June 2018**
- **15 June**, Friday for the issue of Friday **22 June 2018**
- **22 June**, Friday for the issue of Friday **29 June 2018**
- **29 June**, Friday for the issue of Friday **06 July 2018**
- **06 July**, Friday for the issue of Friday **13 July 2018**
- **13 July**, Friday for the issue of Friday **20 July 2018**
- **20 July**, Friday for the issue of Friday **27 July 2018**
- **27 July**, Friday for the issue of Friday **03 August 2018**
- **02 August**, Thursday for the issue of Friday **10 August 2018**
- **10 August**, Friday for the issue of Friday **17 August 2018**
- **17 August**, Friday for the issue of Friday **24 August 2018**
- **24 August**, Friday for the issue of Friday **31 August 2018**
- **31 August**, Friday for the issue of Friday **07 September 2018**
- **07 September**, Friday for the issue of Friday **14 September 2018**
- **14 September**, Friday for the issue of Friday **21 September 2018**
- **20 September**, Thursday for the issue of Friday **28 September 2018**
- **28 September**, Friday for the issue of Friday **05 October 2018**
- **05 October**, Friday for the issue of Friday **12 October 2018**
- **12 October**, Friday for the issue of Friday **19 October 2018**
- **19 October**, Friday for the issue of Friday **26 October 2018**
- **26 October**, Friday for the issue of Friday **02 November 2018**
- **02 November**, Friday for the issue of Friday **09 November 2018**
- **09 November**, Friday for the issue of Friday **16 November 2018**
- **16 November**, Friday for the issue of Friday **23 November 2018**
- **23 November**, Friday for the issue of Friday **30 November 2018**
- **30 November**, Friday for the issue of Friday **07 December 2018**
- **07 December**, Friday for the issue of Friday **14 December 2018**
- **13 December**, Thursday for the issue of Friday **21 December 2018**
- **19 December**, Wednesday for the issue of Friday **28 December 2018**

LIST OF TARIFF RATES FOR PUBLICATION OF NOTICES

COMMENCEMENT: 1 APRIL 2018

NATIONAL AND PROVINCIAL

Notice sizes for National, Provincial & Tender gazettes 1/4, 2/4, 3/4, 4/4 per page. Notices submitted will be charged at R1008.80 per full page, pro-rated based on the above categories.

Pricing for National, Provincial - Variable Priced Notices		
Notice Type	Page Space	New Price (R)
Ordinary National, Provincial	1/4 - Quarter Page	252.20
Ordinary National, Provincial	2/4 - Half Page	504.40
Ordinary National, Provincial	3/4 - Three Quarter Page	756.60
Ordinary National, Provincial	4/4 - Full Page	1008.80

EXTRA-ORDINARY

All Extra-ordinary National and Provincial gazette notices are non-standard notices and attract a variable price based on the number of pages submitted.

The pricing structure for National and Provincial notices which are submitted as **Extra ordinary submissions** will be charged at **R3026.32** per page.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

The **Government Printing Works (GPW)** has established rules for submitting notices in line with its electronic notice processing system, which requires the use of electronic *Adobe* Forms. Please ensure that you adhere to these guidelines when completing and submitting your notice submission.

CLOSING TIMES FOR ACCEPTANCE OF NOTICES

1. The *Government Gazette* and *Government Tender Bulletin* are weekly publications that are published on Fridays and the closing time for the acceptance of notices is strictly applied according to the scheduled time for each gazette.
2. Please refer to the Submission Notice Deadline schedule in the table below. This schedule is also published online on the Government Printing works website www.gpwonline.co.za

All re-submissions will be subject to the standard cut-off times.

All notices received after the closing time will be rejected.

Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
National Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Regulation Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Petrol Price Gazette	Monthly	Tuesday before 1st Wednesday of the month	One day before publication	1 working day prior to publication
Road Carrier Permits	Weekly	Friday	Thursday 15h00 for next Friday	3 working days prior to publication
Unclaimed Monies (Justice, Labour or Lawyers)	January / September 2 per year	Last Friday	One week before publication	3 working days prior to publication
Parliament (Acts, White Paper, Green Paper)	As required	Any day of the week	None	3 working days prior to publication
Manuals	Bi- Monthly	2nd and last Thursday of the month	One week before publication	3 working days prior to publication
State of Budget (National Treasury)	Monthly	30th or last Friday of the month	One week before publication	3 working days prior to publication
<i>Extraordinary Gazettes</i>	As required	Any day of the week	<i>Before 10h00 on publication date</i>	<i>Before 10h00 on publication date</i>
Legal Gazettes A, B and C	Weekly	Friday	One week before publication	Tuesday, 15h00 - 3 working days prior to publication
Tender Bulletin	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Gauteng	Weekly	Wednesday	Two weeks before publication	3 days after submission deadline
Eastern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
Northern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
North West	Weekly	Tuesday	One week before publication	3 working days prior to publication
KwaZulu-Natal	Weekly	Thursday	One week before publication	3 working days prior to publication
Limpopo	Weekly	Friday	One week before publication	3 working days prior to publication
Mpumalanga	Weekly	Friday	One week before publication	3 working days prior to publication

GOVERNMENT PRINTING WORKS - BUSINESS RULES

Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
Gauteng Liquor License Gazette	Monthly	Wednesday before the First Friday of the month	Two weeks before publication	3 working days after submission deadline
Northern Cape Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days after submission deadline
National Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days after submission deadline
Mpumalanga Liquor License Gazette	Bi-Monthly	Second & Fourth Friday	One week before publication	3 working days prior to publication

EXTRAORDINARY GAZETTES

3. *Extraordinary Gazettes* can have only one publication date. If multiple publications of an *Extraordinary Gazette* are required, a separate Z95/Z95Prov *Adobe* Forms for each publication date must be submitted.

NOTICE SUBMISSION PROCESS

4. Download the latest *Adobe* form, for the relevant notice to be placed, from the **Government Printing Works** website www.gpwonline.co.za.
5. The *Adobe* form needs to be completed electronically using *Adobe Acrobat / Acrobat Reader*. Only electronically completed *Adobe* forms will be accepted. No printed, handwritten and/or scanned *Adobe* forms will be accepted.
6. The completed electronic *Adobe* form has to be submitted via email to submit.egazette@gpw.gov.za. The form needs to be submitted in its original electronic *Adobe* format to enable the system to extract the completed information from the form for placement in the publication.
7. Every notice submitted **must** be accompanied by an official **GPW** quotation. This must be obtained from the *eGazette* Contact Centre.
8. Each notice submission should be sent as a single email. The email **must** contain **all documentation relating to a particular notice submission**.
 - 8.1. Each of the following documents must be attached to the email as a separate attachment:
 - 8.1.1. An electronically completed *Adobe* form, specific to the type of notice that is to be placed.
 - 8.1.1.1. For *National Government Gazette* or *Provincial Gazette* notices, the notices must be accompanied by an electronic Z95 or Z95Prov *Adobe* form
 - 8.1.1.2. The notice content (body copy) **MUST** be a separate attachment.
 - 8.1.2. A copy of the official **Government Printing Works** quotation you received for your notice. (*Please see Quotation section below for further details*)
 - 8.1.3. A valid and legible Proof of Payment / Purchase Order: **Government Printing Works** account customer must include a copy of their Purchase Order. **Non-Government Printing Works** account customer needs to submit the proof of payment for the notice
 - 8.1.4. Where separate notice content is applicable (Z95, Z95 Prov and TForm 3, it should **also** be attached as a separate attachment. (*Please see the Copy Section below, for the specifications*).
 - 8.1.5. Any additional notice information if applicable.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

9. The electronic *Adobe* form will be taken as the primary source for the notice information to be published. Instructions that are on the email body or covering letter that contradicts the notice form content will not be considered. The information submitted on the electronic *Adobe* form will be published as-is.
10. To avoid duplicated publication of the same notice and double billing, Please submit your notice **ONLY ONCE**.
11. Notices brought to **GPW** by "walk-in" customers on electronic media can only be submitted in *Adobe* electronic form format. All "walk-in" customers with notices that are not on electronic *Adobe* forms will be routed to the Contact Centre where they will be assisted to complete the forms in the required format.
12. Should a customer submit a bulk submission of hard copy notices delivered by a messenger on behalf of any organisation e.g. newspaper publisher, the messenger will be referred back to the sender as the submission does not adhere to the submission rules.

QUOTATIONS

13. Quotations are valid until the next tariff change.
 - 13.1. **Take note:** **GPW's** annual tariff increase takes place on **1 April** therefore any quotations issued, accepted and submitted for publication up to **31 March** will keep the old tariff. For notices to be published from 1 April, a quotation must be obtained from **GPW** with the new tariffs. Where a tariff increase is implemented during the year, **GPW** endeavours to provide customers with 30 days' notice of such changes.
14. Each quotation has a unique number.
15. Form Content notices must be emailed to the *eGazette* Contact Centre for a quotation.
 - 15.1. The *Adobe* form supplied is uploaded by the Contact Centre Agent and the system automatically calculates the cost of your notice based on the layout/format of the content supplied.
 - 15.2. It is critical that these *Adobe* Forms are completed correctly and adhere to the guidelines as stipulated by **GPW**.
16. **APPLICABLE ONLY TO GPW ACCOUNT HOLDERS:**
 - 16.1. **GPW** Account Customers must provide a valid **GPW** account number to obtain a quotation.
 - 16.2. Accounts for **GPW** account customers **must** be active with sufficient credit to transact with **GPW** to submit notices.
 - 16.2.1. If you are unsure about or need to resolve the status of your account, please contact the **GPW** Finance Department prior to submitting your notices. (If the account status is not resolved prior to submission of your notice, the notice will be failed during the process).
17. **APPLICABLE ONLY TO CASH CUSTOMERS:**
 - 17.1. Cash customers doing **bulk payments** must use a **single email address** in order to use the **same proof of payment** for submitting multiple notices.
18. The responsibility lies with you, the customer, to ensure that the payment made for your notice(s) to be published is sufficient to cover the cost of the notice(s).
19. Each quotation will be associated with one proof of payment / purchase order / cash receipt.
 - 19.1. This means that **the quotation number can only be used once to make a payment.**

GOVERNMENT PRINTING WORKS - BUSINESS RULES**COPY (SEPARATE NOTICE CONTENT DOCUMENT)**

20. Where the copy is part of a separate attachment document for Z95, Z95Prov and TForm03
- 20.1. Copy of notices must be supplied in a separate document and may not constitute part of any covering letter, purchase order, proof of payment or other attached documents.
- The content document should contain only one notice. (You may include the different translations of the same notice in the same document).
- 20.2. The notice should be set on an A4 page, with margins and fonts set as follows:
- Page size = A4 Portrait with page margins: Top = 40mm, LH/RH = 16mm, Bottom = 40mm;
Use font size: Arial or Helvetica 10pt with 11pt line spacing;
- Page size = A4 Landscape with page margins: Top = 16mm, LH/RH = 40mm, Bottom = 16mm;
Use font size: Arial or Helvetica 10pt with 11pt line spacing;

CANCELLATIONS

21. Cancellation of notice submissions are accepted by **GPW** according to the deadlines stated in the table above in point 2. Non-compliance to these deadlines will result in your request being failed. Please pay special attention to the different deadlines for each gazette. Please note that any notices cancelled after the cancellation deadline will be published and charged at full cost.
22. Requests for cancellation must be sent by the original sender of the notice and must be accompanied by the relevant notice reference number (N-) in the email body.

AMENDMENTS TO NOTICES

23. With effect from 01 October 2015, **GPW** will not longer accept amendments to notices. The cancellation process will need to be followed according to the deadline and a new notice submitted thereafter for the next available publication date.

REJECTIONS

24. All notices not meeting the submission rules will be rejected to the customer to be corrected and resubmitted. Assistance will be available through the Contact Centre should help be required when completing the forms. (012-748 6200 or email info.egazette@gpw.gov.za). Reasons for rejections include the following:
- 24.1. Incorrectly completed forms and notices submitted in the wrong format, will be rejected.
- 24.2. Any notice submissions not on the correct *Adobe* electronic form, will be rejected.
- 24.3. Any notice submissions not accompanied by the proof of payment / purchase order will be rejected and the notice will not be processed.
- 24.4. Any submissions or re-submissions that miss the submission cut-off times will be rejected to the customer. The Notice needs to be re-submitted with a new publication date.

GOVERNMENT PRINTING WORKS - BUSINESS RULES**APPROVAL OF NOTICES**

25. Any notices other than legal notices are subject to the approval of the Government Printer, who may refuse acceptance or further publication of any notice.
26. No amendments will be accepted in respect to separate notice content that was sent with a Z95 or Z95Prov notice submissions. The copy of notice in layout format (previously known as proof-out) is only provided where requested, for Advertiser to see the notice in final Gazette layout. Should they find that the information submitted was incorrect, they should request for a notice cancellation and resubmit the corrected notice, subject to standard submission deadlines. The cancellation is also subject to the stages in the publishing process, i.e. If cancellation is received when production (printing process) has commenced, then the notice cannot be cancelled.

GOVERNMENT PRINTER INDEMNIFIED AGAINST LIABILITY

27. The Government Printer will assume no liability in respect of—
 - 27.1. any delay in the publication of a notice or publication of such notice on any date other than that stipulated by the advertiser;
 - 27.2. erroneous classification of a notice, or the placement of such notice in any section or under any heading other than the section or heading stipulated by the advertiser;
 - 27.3. any editing, revision, omission, typographical errors or errors resulting from faint or indistinct copy.

LIABILITY OF ADVERTISER

28. Advertisers will be held liable for any compensation and costs arising from any action which may be instituted against the Government Printer in consequence of the publication of any notice.

CUSTOMER INQUIRIES

Many of our customers request immediate feedback/confirmation of notice placement in the gazette from our Contact Centre once they have submitted their notice – While **GPW** deems it one of their highest priorities and responsibilities to provide customers with this requested feedback and the best service at all times, we are only able to do so once we have started processing your notice submission.

GPW has a 2-working day turnaround time for processing notices received according to the business rules and deadline submissions.

Please keep this in mind when making inquiries about your notice submission at the Contact Centre.

29. Requests for information, quotations and inquiries must be sent to the Contact Centre ONLY.
30. Requests for Quotations (RFQs) should be received by the Contact Centre at least **2 working days** before the submission deadline for that specific publication.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

PAYMENT OF COST

31. The Request for Quotation for placement of the notice should be sent to the Gazette Contact Centre as indicated above, prior to submission of notice for advertising.
32. Payment should then be made, or Purchase Order prepared based on the received quotation, prior to the submission of the notice for advertising as these documents i.e. proof of payment or Purchase order will be required as part of the notice submission, as indicated earlier.
33. Every proof of payment must have a valid **GPW** quotation number as a reference on the proof of payment document.
34. Where there is any doubt about the cost of publication of a notice, and in the case of copy, an enquiry, accompanied by the relevant copy, should be addressed to the Gazette Contact Centre, **Government Printing Works**, Private Bag X85, Pretoria, 0001 email: info.egazette@gpw.gov.za before publication.
35. Overpayment resulting from miscalculation on the part of the advertiser of the cost of publication of a notice will not be refunded, unless the advertiser furnishes adequate reasons why such miscalculation occurred. In the event of underpayments, the difference will be recovered from the advertiser, and future notice(s) will not be published until such time as the full cost of such publication has been duly paid in cash or electronic funds transfer into the **Government Printing Works** banking account.
36. In the event of a notice being cancelled, a refund will be made only if no cost regarding the placing of the notice has been incurred by the **Government Printing Works**.
37. The **Government Printing Works** reserves the right to levy an additional charge in cases where notices, the cost of which has been calculated in accordance with the List of Fixed Tariff Rates, are subsequently found to be excessively lengthy or to contain overmuch or complicated tabulation.

PROOF OF PUBLICATION

38. Copies of any of the *Government Gazette* or *Provincial Gazette* can be downloaded from the **Government Printing Works** website www.gpwnonline.co.za free of charge, should a proof of publication be required.
39. Printed copies may be ordered from the Publications department at the ruling price. The **Government Printing Works** will assume no liability for any failure to post or for any delay in despatching of such *Government Gazette(s)*

GOVERNMENT PRINTING WORKS CONTACT INFORMATION

Physical Address:

Government Printing Works
149 Bosman Street
Pretoria

Postal Address:

Private Bag X85
Pretoria
0001

GPW Banking Details:

Bank: ABSA Bosman Street
Account No.: 405 7114 016
Branch Code: 632-005

For Gazette and Notice submissions: Gazette Submissions:

For queries and quotations, contact: Gazette Contact Centre:

E-mail: submit.egazette@gpw.gov.za

E-mail: info.egazette@gpw.gov.za

Tel: 012-748 6200

Contact person for subscribers: Mrs M. Toka:

E-mail: subscriptions@gpw.gov.za

Tel: 012-748-6066 / 6060 / 6058

Fax: 012-323-9574

GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES**NO. 1083****12 OCTOBER 2018****DRAFT FERTILIZER BILL**

I, Senzeni Zokwana, Minister of Agriculture, Forestry and Fisheries, hereby publish a notice to invite public comments on the draft Fertilizer Bill.

The above-mentioned Draft Bill is accessible on DAFF website: www.daff.gov.za for public access at the following address route: Branch→ Agricultural Production, Health & Food Safety →Agriculture Inputs Control→ Gazette and notices→ press enter

Comments must be submitted in writing within 60 days of publication of this notice to:

Name: Jonathan Mudzunga
Designation: Registrar: Act No. 36 of 1947
Postal Address: Private Bag X 343, PRETORIA, 0001
Physical Address: 20 Steve Biko Road, Arcadia, PRETORIA
Tel.: (012) 319 7303
Fax: (012) 319 7179
E-Mail: MalutaM@daff.gov.za

S. Zokwana,
Minister of Agriculture, Forestry and Fisheries

ECONOMIC DEVELOPMENT DEPARTMENT**NO. 1084****12 OCTOBER 2018****COMPETITION COMMISSION****NOTICE IN TERMS OF SECTION 10(7) OF THE COMPETITION ACT 89 OF 1998 (AS AMENDED): SOUTH AFRICAN PETROLEUM INDUSTRY ASSOCIATION GRANTED
CONDITIONAL EXEMPTION**

On 22 December 2015, the South African Petroleum Industry Association ("SAPIA") and its members applied to the Competition Commission of South Africa ("Commission") in terms of Section 10(1)(b) of the Competition Act No 89 of 1998, as amended (the "Act") to be exempted from certain provisions of Section 4 of the Act. The exemption was sought for a period of five (5) years from 1 January 2016 ending on 31 December 2020.

Notice is hereby given in terms of Section 10(7) of the Act, that the Commission has extended the SAPIA exemption for a period of 6 (six) months starting from 01 October 2018 ending 31 March 2019 on the same terms and conditions as published in Government Gazette No.34651 of 7 October 2011.

The exemption granted by the Commission covers a wide range of agreements and practices which, according to SAPIA, are required to ensure the continuity and stability of liquid fuels supply to various sectors and geographic locations of the South African economy. In particular, the exemption covers agreements and practices in the petroleum and refinery industry which are considered by the Commission to be in contravention of Sections 4(1)(a) and (b) of the Act.

The Commission has previously, in response to the above mentioned application, granted SAPIA a conditional exemption in terms of Section 10(2)(a) of the Act for a period of 6 (six) months starting from 01 January 2016 and ending on 30 June 2016. Following the expiry of the exemptions, the Commission extended the conditional exemption until 31 December 2016 and further to 31 December 2017. This was followed by several extensions, with the latest one ending

on 30 of September 2018. SAPIA based its application on the premise that the aforesaid agreements and practices are required to obtain the objective set out under Section 10(3)(b)(iv) of the Act. This is after the Minister of Economic Development Department designated the petroleum and refinery industry for a period of 6 (six) months starting from 01 January 2016 ending on 30 June 2016, which was followed by several extensions, with the latest one ending on the 30 of September 2018.

In anticipation of the expiry of the exemption and the industry designation on 30 September 2018, the Economic Development Department granted SAPIA an industry designation ending on 31 March 2019.

The Commission is satisfied that SAPIA's exemption will contribute towards maintaining the economic stability of the petroleum and refinery industry for the period starting on 01 October 2018 and ending on 31 March 2019.

SAPIA or any other person with substantial financial interest affected by this decision may appeal it to the Competition Tribunal in the prescribed manner in terms of Section 10(8) of the Act.

Further queries should be directed to either:

Mr Nonjabulo Sambo / Ms Selelo Ramohlola
Competition Commission of SA
Enforcement and Exemptions Division,
Private Bag X23,
Lynnwood Ridge, 0040

Email: NonjabuloS@compcom.co.za / SeleloR@compcom.co.za

In correspondence kindly refer to the following case number: 2015Dec0741

DEPARTMENT OF HOME AFFAIRS

NO. 1085

12 OCTOBER 2018

BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

PUBLICATION OF THE DRAFT REGULATIONS ON THE REGISTRATION OF BIRTHS
AND DEATHS, 2018

The Department of Home Affairs ("DHA") invites public comments on the draft Refugees Regulations, 2014

Written submissions should reach the DHA **on or before 16 November 2018**. Submissions should be addressed to the Chief Director: Legal Services and may be forwarded to the DHA in any of the following manners:

- (a) delivered by hand to the Department of Home Affairs, 230 Johannes Ramokhoase (Proes) Street, Hallmark Building (c/o Johannes Ramokhoase and Thabo Sehume Street), Pretoria, 0001, for **attention** Adv Tsietsi Sebelemetja;
- (b) mailed to the DHA at Private Bag X114, Pretoria, 0001;
- (c) faxed to 0865 144 267; or
- (d) e-mailed to Tsietsi.Sebelemetja@dha.gov.za and Moses.Malakate@dha.gov.za

Any enquiries should be directed to **Adv Tsietsi Sebelemetja** at (012) 406 4271 / 4023 or **Adv Moses Malakate** at (012) 406 4273.

GOVERNMENT NOTICE

DEPARTMENT OF HOME AFFAIRS

No. R. _____

_____ 2018

BIRTHS AND DEATHS REGISTRATION ACT, 1992**DRAFT REGULATIONS ON THE REGISTRATION OF BIRTHS AND DEATHS, 2018**

The Minister of Home Affairs intends, in terms of section 32 of the Births and Deaths Registration Act, 1992 (Act No. 51 of 1992), to make the Regulations in the Schedule.

SCHEDULE**Definitions**

1. In these regulations any word or expression to which a meaning has been assigned in the Act shall have that meaning and, unless the context otherwise indicates—

“**Children’s Act**” means the Children’s Act, 2005 (Act No. 38 of 2005);

“**confirmation of birth certificate**” means a certificate issued to a non-South African citizen confirming that the birth of his or her child occurred within the Republic and enables the holder thereof to approach the relevant authorities of his or her country of citizenship or nationality in order to register the birth of his or her child in his or her country of citizenship or nationality’s population register;

“**informant**” means a person who gives notice of death under regulation 14;

“**funeral undertaker**” means a person who is designated as such in terms of section 22A of the Act;

“**identity document**” means an identity document or card issued in terms of the Identification Act;

“**Identification Act**” means the Identification Act, 1997 (Act No. 68 of 1997);

“**Immigration Act**” means the Immigration Act, 2002 (Act No. 13 of 2002);

“**Inquests Act**” means the Inquests Act, 1959 (Act No. 58 of 1959);

“**inspectorate**” means the inspectorate established in terms of section 33(1) of the Immigration Act;

“late registration of birth” means a notice of birth given after the expiry of the period of 30 days contemplated in section 9(3A) of the Act;

“medical practitioner” means a person registered as a medical practitioner under the Health Professions Act, 1974 (Act No. 56 of 1974) and who has a valid practice number issued by the relevant health professions council;

“national population register” means the population register contemplated in section 5 of the Identification Act;

“non-South African citizen” means a person who holds a valid temporary residence visa contemplated in sections 11 to 23 of the Immigration Act, and includes an asylum seeker or refugee issued with a permit in terms of section 22 or 24 of the Refugees Act;

“Refugees Act” means the Refugees Act, 1998 (Act No. 130 of 1998);

“South African Citizenship Act” means the South African Citizenship Act, 1995 (Act No. 88 of 1995);

“the Act” means the Births and Deaths Registration Act, 1992 (Act No. 51 of 1992); and

“valid passport” means a valid passport as contemplated in regulation 2 of the Regulations made under the Immigration Act.

Powers and duties of Director-General

2.(1) Subject to the provisions of the Act, the Director-General shall—

- (a) safeguard and take charge of, and subject to the provisions of section 6(1) of the Act, preserve all books, registers, forms, notices, records and any other document of which he or she is the custodian, or which is required to be furnished to him or her, in terms of the Act or these Regulations;
- (b) keep supplies of forms, certificates, notices, registers and any other document required to be used with regard to the implementation of the provisions of the Act and these Regulations with a view to supply such forms, certificates, notices, registers or any other document to any person contemplated in section 4(1) of the Act; and
- (c) receive from informants and persons referred to in section 4(1) of the Act, the completed registers, forms, notices or any other documents accompanied by supporting declarations and certificates, where prescribed, and verify such documents.

(2) If a birth has been registered twice in the national population register, the Director-General shall cancel one of the two registrations.

(3) The Director-General must reject a notice of birth or death if he or she is satisfied that the notice—

- (a) is not in compliance with the Act;

- (b) contains information that is inaccurate or cannot be verified; or
 - (c) amounts to misrepresentation or fraud.
- (4) Where the notice of birth is rejected, the Director-General shall cause the rejected notice to be safely stored as part of the records of the Department.
- (5) Where it appears to the Director-General that any person has knowingly made any false statement relating to any notice in terms of the Act, he or she must lay a charge or cause a charge to be laid against such person as contemplated in section 31(1)(b) of the Act.

REGISTRATION OF BIRTHS

Notice of birth for children born of South African citizens

- 3.(1) Any South African citizen must give notice of the birth of his or her child within 30 days of the birth as contemplated in subregulation (3).
- (2) Where both parents of a child whose birth is sought to be registered in terms of subregulation (1) are deceased, the notice of birth must be made by the next-of-kin or legal guardian of the child.
- (3) A notice of birth referred to in subregulation (1) must be given by, where possible, both parents to the Director-General on Form DHA-24 illustrated in Annexure 1 and be accompanied by—
- (a) proof of birth on Form DHA-24/PB illustrated in Annexure 1A attested to by a medical practitioner who—
 - (i) attended to the birth; or
 - (ii) examined the mother or the child after the birth of the child;
 - (b) an affidavit attested to by a South African citizen who witnessed the birth of the child where the birth occurred at a place other than a health institution on Part A5 on Form DHA-24 illustrated in Annexure 1;
 - (c) biometrics, in the form of a palm, foot or fingerprint of the child whose birth is sought to be registered in the appropriate space on Part A4 on Form DHA-24 illustrated in Annexure 1;
 - (d) fingerprints of the parents, which shall be verified online against the national population register: Provided that where the fingerprints cannot be verified online, the full set of fingerprints of the parents shall be taken on Form DHA-24/A illustrated in Annexure 1B;
 - (e) a certified copy of the identity document of the biological or adoptive mother or father or both parents of the child whose birth is sought to be registered, as the case may be;
 - (f) a certified copy of a valid passport and visa or permit, where one parent is a non-South African citizen;
 - (g) where applicable, a certified copy of a death certificate of any deceased parent;

- (h) where applicable, a certified copy of the marriage certificate of the parents of the child whose birth is sought to be registered; and
- (i) where applicable, a certified copy of the identity document or valid passport and visa or permit of the next-of-kin or legal guardian.

(4) Where a woman gives birth to more than one child during a single confinement, a notice of birth referred to in subregulation (1) must be given for each child on a separate Form DHA-24 illustrated in Annexure 1 with all the supporting documents contemplated in subregulation (3) and the exact time of each birth must be recorded on this Form.

(5) A notice of birth which does not meet the requirements of subregulations (3) and (4), shall not be accepted.

Late registration of birth of children of South African citizens

4.(1) A notice of birth given later than 30 days after the birth but before the child is older than one year, shall be given in accordance with subregulation (3).

(2) Where both parents of a child whose birth is sought to be registered in terms of subregulation (1) are deceased, the notice of birth must be given by the next-of-kin or legal guardian of the child.

(3) A notice of birth referred to in subregulation (1) must be given by, where possible, both parents to the Director-General on Form DHA-24/LRB illustrated in Annexure 2 and be accompanied by—

- (a) proof of birth on Form DHA-24/PB illustrated in Annexure 1A attested to by a medical practitioner who —
 - (i) attended to the birth; or
 - (ii) examined the mother or the child after the birth of the child;
- (b) an affidavit attested to by a South African citizen who witnessed the birth of the child where the birth occurred at a place other than a health institution on Part A7 on Form of DHA-24/LRB illustrated in Annexure 2;
- (c) biometrics, in the form of a palm, foot or fingerprint, of the child whose birth is sought to be registered in the appropriate space on Part A8 on Form 24/LRB illustrated in Annexure 2;
- (d) fingerprints of the parents, which shall be verified online against the national population register: Provided that where the fingerprints cannot be verified online, the full set of fingerprints of the parents shall be taken on form DHA-24/A illustrated in Annexure 1B;
- (e) a certified copy of the identity document of the biological or adoptive mother or father or both parents of the child whose birth is sought to be registered, as the case may be;
- (f) a certified copy of a valid passport and visa or permit, where one parent is a non-South African citizen;

- (g) where applicable, a certified copy of the death certificate of any deceased parent;
- (h) where applicable, a certified copy of the marriage certificate of the parents of the child whose birth is sought to be registered;
- (i) where applicable, a certified copy of the identity document or valid passport and visa or permit of the next-of-kin or legal guardian; and
- (j) proof of payment of the applicable fee.

(4) Where a woman gives birth to more than one child during a single confinement, the notice of birth contemplated in subregulation (1) must be given for each child separately on Form DHA–24/LRB illustrated in Annexure 2 with all the supporting documents contemplated in subregulation (3) and the exact time of each birth must be recorded in that Form.

(5) A notice of birth which does not meet the requirements of subregulations (3) and (4), shall not be accepted.

Late registration of birth of children older than one year born of South African citizens

5.(1) A notice of birth for a child or a person who is older than one year must be made by the biological parents of the child or a person as contemplated in subregulation (3).

(2) Where both parents of a child or person whose birth is sought to be registered in terms of subregulation (1) are deceased, the notice of birth must be given by the next-of-kin or legal guardian of the child or person: Provided that where the person whose birth is sought to be registered is 18 years or older, such a person may give notice of his or her own birth.

(3) A notice of birth referred to in subregulation (1) must be given by, where possible, both parents to the Director-General on Form DHA–24/LRB illustrated in Annexure 2 and be accompanied by—

- (a) proof of birth on Form DHA–24/PB illustrated in Annexure 1A attested to by a medical practitioner who—
 - (i) attended to the birth; or
 - (ii) examined the mother or the child after the birth of the child;
- (b) an affidavit attested to by a South African citizen who witnessed the birth of the child or the person where the birth occurred at a place other than a health institution on Form DHA–24/PBA illustrated in Annexure 1E;
- (c) biometrics, in the form of a palm, foot or fingerprint, of any child younger than 7 years whose birth is sought to be registered in the appropriate space on Part A8 of Form DHA–24/LRB illustrated in Annexure 2;
- (d) fingerprints of—
 - (i) the parents; and
 - (ii) the child or person who is 7 years or older,

which shall be verified online against the national population register: Provided that where the parents fingerprints cannot be verified online, the full set of fingerprints of the parents shall be taken on Form DHA-24/LRB illustrated in Annexure 2: Provided further that where the child's fingerprints cannot be verified online, the full set of fingerprints of the child must be taken on Part A.9 of Form DHA-24/LRB;

- (e) two recent identity size photographs of a child or person who is 7 years or older, affixed to the appropriate space on Part A9 of Form DHA-24/LRB illustrated in Annexure 2;
- (f) a certified copy of the identity document or passport and visa or permit of the parents of the child or person whose birth is sought to be registered, where one of the parents is a non-South African citizen;
- (g) where applicable, a certified copy of the death certificate of any deceased parent of the child or person;
- (h) where applicable, a certified copy of the marriage certificate of the parents of the child or person;
- (i) where applicable, a certified copy of the identity document or passport and visa or permit of the next-of-kin or legal guardian of the child or person; and
- (k) proof of payment of the applicable fee.

(4) Where a woman gives birth to more than one child during a single confinement, the notice of birth contemplated in subregulation (1) must be given for each child separately on Form DHA-24/LRB illustrated in Annexure 2 with all the supporting documents contemplated in subregulation (3) and the exact time of each birth must be recorded in that Form.

(5) A notice of birth which does not meet the requirements of subregulations (3) and (4), shall not be accepted.

Verification, approval or rejection of notice of birth

6.(1) Upon approval of a notice of birth given in accordance with regulations 3, 4 and 5 the Director-General must issue to the parents—

- (a) a birth certificate on Form DHA-5 illustrated in Annexure 3; or
- (b) an acknowledgement of receipt on Form DHA-25 illustrated in Annexure 1 or Annexure 2, as the case may be, if, for any reason, the birth certificate cannot be issued immediately.

(2) Any person who is issued with a birth certificate must verify the information contained therein and if found to be incorrect must, within 7 days of receipt of the birth certificate, return such birth certificate to the Director-General for rectification as contemplated in section 7 of the Act.

(3) The Director-General must, in respect of each notice of birth contemplated in regulations 3, 4 and 5, authenticate the veracity of the information furnished to him or her and either approve or reject the notice.

(4) For the purposes of subregulation (3), the Director-General may prior to approval of notice of birth contemplated in regulation 3, 4 or 5 cause any person who gives the notice or supported such notice to be interviewed by a screening committee established by him or her.

(5) The screening committee must, after interviewing all relevant persons relating to the information contained in the notice, make recommendations to the Director-General who shall consider and approve or reject the notice.

(6) Where it is apparent from a notice of birth that the child or the person whose birth is sought to be registered is a non-South African citizen, the Director-General may deal with the notice as contemplated in regulation 8.

(7) The date of birth or identity number allocated to a child or person whose notice of birth was approved as contemplated in subregulation (1) may not be rectified after the period contemplated in subregulation (2).

(8) Where a notice of birth is rejected, the Director-General shall inform the parents, in writing, of the rejection of the notice.

(9) If at any time after a birth certificate has been issued it becomes apparent that the birth certificate was issued erroneously to any person, the Director-General must cancel the birth registration, birth certificate and any other documents, including an identity document or passport issued to the holder of such birth certificate.

Notice of birth of children born of permanent residents and refugees

7.(1) Regulations 3, 4, 5 and 6 shall apply with the necessary changes to persons who hold permanent residence status in terms of section 26 or 27 of the Immigration Act and to persons who hold refugee status in terms of section 24 of the Refugees Act.

(2) Upon approval of a notice of birth, the Director-General must issue to the parents a confirmation of birth on a Form DHA-19 illustrated in Annexure 4: Provided that an identity number, as contemplated in terms of section 7 of the Identification Act, for holders of a valid permanent residence permit issued in terms of the Immigration Act or refugee permit issued in terms of section 24 of the Refugees Act, will be allocated to the child after the issuance of the derivative permanent residence status or refugee status to the child.

Notice of birth of children born of parents who are non-South African citizens

8.(1) A notice of birth of a child born of parents who are non-South African citizens and who are not permanent residents or refugees must be given as contemplated in subregulation (3) by either parent of the child within 30 days of the birth of the child in the Republic.

(2) Where the parents of the child whose birth is sought to be registered as contemplated in subregulation (1) are deceased, the notice of birth may be given by the next-of-kin or legal guardian of the child.

(3) A notice of birth referred to in subregulation (1) must be given to the Director-General on Form DHA-24 illustrated in Annexure 1 and be accompanied by—

- (a) proof of birth on Form DHA-24/PB illustrated in Annexure 1A attested to by a medical practitioner who—
 - (i) attended to the birth; or
 - (ii) examined the mother or the child after the birth of the child;
- (b) an affidavit attested to by a person who witnessed the birth of the child where the birth occurred at a place other than a health institution on Part A5 of Form DHA-24 illustrated in Annexure 1;
- (c) a certified copy of a valid passport and visa or permit of the mother or father, or both parents, of the child, as the case may be;
- (d) where applicable, a certified copy of the valid identity document or passport and visa or permit of the next-of-kin or legal guardian;
- (e) where applicable, a certified copy of an asylum seeker permit issued in terms of section 22 of the Refugees Act of the mother or father or both biological parents of the child;
- (f) where applicable, a certified copy of the death certificate of any deceased parent of the child;
- (g) where applicable, a certified copy of the marriage certificate of the parents of the child whose birth is sought to be registered; and
- (h) proof of payment of the applicable fee.

(4) Where a woman gives birth to more than one child during a single confinement, the notice of birth contemplated in subregulation (1) must be given for each child separately on Form DHA-24 illustrated in Annexure 1 with all the supporting documents contemplated in subregulation (3) and the exact time of each birth must be recorded in that Form.

(5) Upon approval of a notice of birth, the Director-General must issue to the parents a confirmation of birth without an identity number on Form DHA-19 illustrated in Annexure 4, in terms of section 5(3) of the Act.

Notice of birth of abandoned or orphaned children

9.(1) A notice of birth of an abandoned or orphaned child in terms of section 12 of the Act must be given on Form DHA–24 illustrated in Annexure 1 by a social worker within 60 days of obtaining a court order in terms of section 156 of the Children’s Act, and must be accompanied by—

- (a) a court order issued by the children’s court;
- (b) a certified copy of the identity document or valid passport and visa or permit of the social worker;
- (c) where available, a certified copy of the identity document or passport and visa or permit of the parents of the child;
- (d) where available, a certified copy of the death certificate of the parents of the child; and
- (e) a social workers’ report that was presented to the children’s court.

(2) Where it is apparent from a notice of birth that the child whose birth is sought to be registered in terms of the court order is a non-South African citizen, the Director-General may deal with the notice as contemplated in regulation 8 and inform the relevant children’s court accordingly.

(3) The social worker who submits a notice of birth of a child referred to in subregulation (1), must give a name or surname, or both name and surname, to that child if the name or surname or both name and surname have not been given to the child.

(4) A birth certificate issued in terms of section 12 of the Act must contain the particulars of the parents of the child where such particulars are known.

Recording of adoption in birth register

10.(1) An application for recording of adoption referred to in section 27B of the Act must be made by the adoptive parents, within 90 days of the registration of the adoption order by the adoption registrar, on Part G of Form DHA–24 illustrated in Annexure 1.

(2) The application contemplated in subregulation (1) must be supported by the documentation referred to in section 245 of the Children’s Act, which are—

- (a) a certified copy of the adoption order;
- (b) a certified copy of the original birth certificate of the child; and
- (c) where applicable, proof of payment of the applicable fee.

(3) Upon approval of the application to record the adoption of the child on the birth register, the old identity number of the adopted child must be blocked and marked and a new identity number issued, together with a corresponding birth certificate recording the names of the adoptive parents.

Birth outside Republic

11.(1) A notice of birth given for a child born of South African citizens outside the Republic as contemplated in section 13 of the Act shall be on Form DHA-24 illustrated in Annexure 1 and be accompanied by—

- (a) Form DHA-529 illustrated in Annexure 5; and
- (b) an unabridged birth certificate or other similar document issued by the relevant authority in the country where the birth occurred.

(2) A notice of birth contemplated in subregulation (1) must comply with the requirements as set out in regulation 3, 4 or 5, as the case may be.

(3) A notice of birth contemplated in subregulation (1) must be given to the Head of a South African diplomatic or consular mission or to any district or regional office of the Department in the Republic.

(4) The Director-General must, in respect of each notice received in terms of this regulation, determine the citizenship of the parents in accordance with the provisions of the South African Citizenship Act, and if one of the parents is a South African citizen, register the birth in terms of section 5(2) of the Act and issue a birth certificate to the parents.

(5) Any person who, in terms of section 6 of the South African Citizenship Act, has lost and subsequently applied for resumption of his or her South African citizenship and requires his or her child to be registered in terms of this regulation, must give such notice in the Republic.

CHILDREN BORN OUT OF WEDLOCK**Notice of birth of child born out of wedlock**

12.(1) A notice of birth of a child born out of wedlock shall be made by the mother of the child on Form DHA-24 illustrated in Annexure 1 or Form DHA-24/LRB illustrated in Annexure 2, whichever applicable.

(2) The person who acknowledges that he is the father of the child born out of wedlock must—

- (a) enter his particulars and sign on Part A4 of Form DHA-24 illustrated in Annexure 1 at the offices of the Department and in the presence of an official of the Department as contemplated in section 10(1)(b) of the Act;
- (b) in the case of late registration of birth, submit an affidavit on Part A4 of Form DHA-24/LRB illustrated in Annexure 2 in which he—
 - (i) states his relationship to the mother; and
 - (ii) acknowledges paternity of the child; and
- (c) have his fingerprints verified online against the national population register: Provided that in the event of the father being a non-South African citizen, he must submit a certified

copy of his valid passport, a certified copy of a valid visa or permit, permanent resident identity document or refugee identity document.

Amendment of birth registration of child born out of wedlock

13.(1) An application for an amendment of birth registration referred to in section 11(1) of the Act shall be made on Part C of Form DHA-24 illustrated in Annexure 1.

(2) The Director-General must upon the approval of the application contemplated in subregulation (1), amend the registration of the birth and issue a new birth certificate in accordance with the said application.

Application for insertion of unmarried father's particulars in birth register of child born out of wedlock

14.(1) An application for the insertion of the father's particulars in terms of section 11(4) of the Act shall be made on Part E of Form DHA-24 illustrated in Annexure 1.

(2) An application contemplated in subregulation (1) made by a person who is a non-South African citizen shall be accompanied by original paternity test results, not older than 3 months, from an institution designated by the Director-General confirming that such person is the biological father of the child.

(3) The Director-General must authenticate the veracity of the information furnished to him or her in respect of the application contemplated in subregulation (1) before approving the application.

(4) Upon approval of the application, the Director-General must record the particulars of the person as the father of the child on the birth register of the child and issue to such person—

- (a) a birth certificate on Form DHA-5 illustrated in Annexure 3; or
- (b) an acknowledgement of receipt on Form DHA-25 illustrated in Annexure 1, if, for any reason, the birth certificate cannot be issued immediately.

AMENDMENTS OR ALTERATIONS

Alteration of particulars of registered father of child born out of wedlock

15.(1) Any person who requires to alter the particulars of a father whose particulars already appear in the birth register of a child as the father as contemplated in sections 10(1)(b) and 11(4) of the Act, shall submit an application on Part E of Form DHA-24 illustrated in Annexure 1, supported by conclusive proof contemplated in subregulation (2).

(2) The conclusive proof contemplated in subregulation (1) shall be in the form of original paternity test results not older than 3 months, obtained at the cost of the applicant from an institution designated by the Director-General.

Alteration of forename

16.(1) An application for the alteration of a forename referred to in section 24 of the Act must be made on Part D of Form DHA–24 illustrated in Annexure 1.

(2) A person of age who, in terms of section 24 of the Act, has previously applied for and was granted a change of a forename, may not thereafter apply for a subsequent change of his or her forename, unless—

- (a) there are exceptional circumstances, which circumstances must be clearly stated and attested to in the Form of an affidavit; or
- (b) his or her forename was initially changed whilst he or she was still a minor.

(3) The identity number of a person who has altered his or her forename in terms of section 24 of the Act may not be amended.

Alteration of surname of minor

17.(1) An application for the alteration of a surname of a minor referred to in section 25 of the Act must be made on Part B1 of Form DHA–24 illustrated in Annexure 1.

(2) Despite the alteration of a surname of a minor, the recorded particulars of the biological father must not be amended on the birth certificate of the minor except upon approval of the application made in terms of regulation 11, 12 or 13, or where the minor is the subject of an adoption order or a court order has been granted to that effect.

(3) The identity number of a minor whose surname has been altered in terms of section 25 of the Act may not be amended.

Assumption of another surname

18.(1) An application for assumption of another surname referred to in section 26 of the Act by a person of age must be made on Part B2 of Form DHA–24 illustrated in Annexure 1.

(2) The reasons referred to in section 26(2) of the Act must relate to—

- (a) a change in the marital status of a woman;
- (b) assumption by a person of his or her biological father's surname, where the father has recently acknowledged paternity in terms of regulation 13 or 14; or
- (c) protection of a person in terms of the Witness Protection Act, 1998 (Act No. 112 of 1998).

(3) An application contemplated in subregulation (1) must be accompanied by—

- (a) a certified copy of the identity document or birth certificate of the applicant;
- (b) a certified copy of the identity document or valid passport of the biological mother or father or both parents of the child, as the case may be;
- (c) where applicable, a certified copy of the marriage certificate of the parents;
- (d) where applicable, a certified copy of the death certificate of any deceased parent;

- (e) where applicable, a letter issued by the Director: Witness Protection; and
- (f) proof of payment of the applicable fee.

(4) Upon approval of an application contemplated in subregulation (1), any alteration of a forename, surname or assumption of another surname made in terms of section 24, 25 or 26 of the Act must be made—

- (a) by entering the altered forename or surname or assumed surname of the minor in the birth register; and
- (b) if the particulars of the person have been included in the national population register, by including the altered forename, surname or assumed surname in the national population register,

without erasing the previous forename, surname or assumed surname.

(5) The assumption of another surname contemplated in subregulation (2)(a), (b) or (d) shall not have the effect of changing a person's identity number.

Alteration of sex description

19. An application for alteration of sex description contemplated in section 27A of the Act, must be made on Part F of Form DHA–24 illustrated in Annexure 1.

Publication of amplification of birth register, alterations of forenames and surnames

20. In the case of an alteration or amplification of a forename or surname referred to in section 27 of the Act, the full names of the person as they existed before the alteration or amplification, his or her identity number and his or her altered or amplified forename or surname, must be published in the *Government Gazette*.

REGISTRATION OF DEATHS

Notice of death for South African citizens

21.(1) A notice of death must be given within 72 hours of the death by the informant—

- (a) on Form DHA–1663 illustrated in Annexure 6 to the Director-General, where the cause of death certificate contemplated in section 15(1) or (2) of the Act was issued by a medical practitioner; or
- (b) on Form DHA–1680 illustrated in Annexure 7 where the cause of death certificate contemplated in section 15(1) or (2) of the Act was not issued by a medical practitioner; and
- (c) be accompanied by the following supporting documents:
 - (i) the original identity document of the deceased;

- (ii) in respect of a minor, the original birth certificate;
 - (iii) the biometrics of the deceased and the informant must be affixed in the appropriate space provided on Form DHA-1680 illustrated in Annexure 7 and, in the case where the biometrics cannot be affixed, an affidavit containing the reasons as to why such biometrics were not affixed must be attached; and
 - (iii) a certified copy of the identity document of the informant.
- (2) An official of the Department to whom a notice of death is given as contemplated in subregulation (1) must—
- (a) verify the particulars of the deceased against the national population register;
 - (b) verify the particulars of the informant or the authorised funeral undertaker online against the national population register and attach the online verification report to the death register: Provided that where the fingerprints cannot be verified online, the informant or the funeral undertaker must have his or her full set of fingerprints taken on Form DHA-24/A illustrated in Annexure 1B;
 - (c) record the cause of death as—
 - (i) “natural causes”, if satisfied that the death was due to natural causes;
 - (ii) “unnatural causes”, if satisfied that the death was due to unnatural causes; or
 - (iii) “under investigation” and the case number, if the death is still under investigation in terms of section 3 of the Inquests Act;
 - (d) take possession of, cancel and destroy the original identity document of the deceased in terms of section 20 of the Identification Act or mark the birth certificate as “deceased”;
 - (e) issue to the informant a death certificate on Form DHA-18 illustrated in Annexure 10, if the death certificate cannot be issued immediately, proof of notice of death on Form DHA-1577 illustrated in Annexure 8; and
 - (f) issue to the informant a burial order on Form DHA-14A illustrated in Annexure 9.

Notice of death for non-South African citizens

22.(1) A notice of death must be given within 72 hours of the death by the informant—

- (a) on Form DHA-1663 illustrated in Annexure 6 to the Director-General, where a cause of death certificate contemplated in section 15(1) or (2) of the Act was issued by a medical practitioner; or
- (b) on Form DHA-1680 illustrated in Annexure 7 where a cause of death certificate contemplated in section 15(1) or (2) of the Act was not issued by a medical practitioner; and
- (c) be accompanied by the following supporting documents:

- (i) A certified copy of the identity document or valid passport of the informant;
 - (ii) the biometrics of the deceased and the informant must be affixed in the appropriate space provided on Form DHA-1680 illustrated in Annexure 7 and in the case where the biometrics cannot be affixed, an affidavit containing the reasons as to why such biometrics were not affixed must be attached; and
 - (iii) a certified copy of the identity document of the informant.
- (2) An official of the Department to whom a notice of death is given as contemplated in subregulation (1) must—
- (a) verify the particulars of the deceased;
 - (b) verify the particulars of the informant or the funeral undertaker online against the national population register and attach the online verification report to the death register: Provided that where the informant or funeral undertaker's fingerprints cannot be verified online, the informant or the funeral undertaker must have his or her full set of fingerprints taken on Form DHA-24/A illustrated in Annexure 1B;
 - (c) record the cause of death as—
 - (i) "natural causes", if satisfied that the death was due to natural causes;
 - (ii) "unnatural causes", if satisfied that the death was due to unnatural causes; or
 - (iii) "under investigation" and the case number, if the death is still under investigation in terms of section 3 of the Inquests Act;
 - (d) issue to the informant a death certificate on Form DHA-18 illustrated in Annexure 10; and
 - (e) issue to the informant a burial order on Form DHA-14A illustrated in Annexure 9.

Certificate by medical practitioner

23.(1) A certificate in respect of a death due to causes referred to in sections 15(1) and (2) and 17(1) of the Act, must be issued on Form DHA-1663 illustrated in Parts A, B, C and G of Annexure 6.

(2) The medical practitioner concerned must, on request and free of charge, issue to the informant or funeral undertaker the original Form DHA-1663 illustrated in Annexure 6, excluding Part G, and preserve a copy of the Annexure 13 for a period of at least five years.

(3) The Director-General may at any time require the concerned medical practitioner to submit a copy of any cause of death certificate issued by him or her.

Notice of stillbirth

24.(1) A notice of stillbirth must be given within 72 hours, in terms of section 18(1) of the Act, on Form DHA-1663 illustrated in Parts A, B, D, and F of Annexure 6.

(2) The declaration referred to in section 18(2) of the Act must be on Form DHA-6 illustrated in Annexure 11.

Death outside Republic

25.(1) A notice of death of a person who died outside the Republic as contemplated in section 19(1) of the Act may be given to the head of any South African diplomatic or consular mission or to any district or regional office of the Department in the Republic.

(2) A notice of death contemplated in subregulation (1) shall be accompanied by—

- (a) a death certificate or any other document issued by the authority of the country where the death occurred;
- (b) a copy of the identity document or passport of the deceased; and
- (c) a copy of the identity document or passport and visa or permit of the informant;

(3) On receipt of the notice contemplated in subregulation (1), the official at the mission must complete Form DHA-1663 illustrated in Annexure 6 and issue proof of notice of death to the informant on Form DHA-1577 illustrated in Annexure 8.

(4) The head of a mission must, as soon as possible, forward to the Director-General each completed DHA-1663 illustrated in Annexure 6, together with all the supporting documents, and the Director-General shall record the death as contemplated in regulation 21(2).

(5) A proof of notice of death must be issued upon registration of death, in addition to a burial order.

(6) The granting of permission in terms of section 19(3) of the Act for the issuing of a burial order, must be made, in writing, on the strength of a death certificate or other similar document issued by the authority concerned in the country where the death occurred and the Director-General may, in his or her discretion, request any further information in respect of the deceased, or investigate or cause to be investigated the desirability or not of the burial in the Republic.

Burial order

26. A burial order referred to in sections 14(2), 17(2), 18(3), 19(2) and 20(1) of the Act must be on Form DHA-14B illustrated in Annexure 12.

Burial register

27. The particulars to be entered into the burial register as contemplated in section 21 of the Act are—

- (a) the names and surname of the deceased, as contained in the burial order;
- (b) the identity number or passport number of the deceased;
- (c) the date of death of the deceased;

- (d) the serial number on the burial order;
- (e) the details of the funeral undertaker;
- (f) the date of burial; and
- (g) where applicable, the grave number.

Death certificate

28. A death certificate referred to in section 22 of the Act must be issued on Form DHA–18 or DHA–20 illustrated in Annexure 10 and Annexure 13, as the case may be.

Designation of funeral undertakers

29.(1) An application for designation as a funeral undertaker in terms of section 22A(1) of the Act must be made on Form DHA–1774 illustrated in Annexure 14 and be accompanied by—

- (a) a certified copy of the identity document of the applicant;
- (b) a certificate of competence issued by the relevant municipality or authority;
- (c) where applicable, a business licence;
- (d) a recent valid tax registration certificate for the business issued by the South African Revenue Service;
- (e) proof of registration with any federation or association of funeral undertakers; and
- (f) proof of payment of the applicable fee.

(2) In order to qualify for designation as funeral undertaker, a person must—

- (a) be a South African citizen of 18 years or older;
- (b) not be an official employed by the Department; and
- (c) demonstrate to the Director-General his or her knowledge of the Act by successfully completing a written examination conducted by the Department from time to time.

(4) A designated funeral undertaker who acts as an informant on behalf of the family of the deceased must submit proof of appointment to confirm him or her as the representative of the family of the deceased whose notice of death is being given by such funeral undertaker.

(5) The Director-General may withdraw the designation as a funeral undertaker if satisfied that the funeral undertaker has not complied with the provisions of the Act or has been convicted of a criminal offence without the option of a fine.

Issuing of certificates

30.(1) An application for a certificate contemplated in section 28(1) of the Act must be made on Form DHA–132/154/130 illustrated in Annexure 15, as the case may be.

(2) A certificate issued as a duplicate must be clearly marked as a “duplicate”.

(3) A certificate contemplated in subregulation (2) must be issued subject to the provisions of section 29 of the Act.

Surrender of documents and certificates containing incorrect information and rectification

31.(1) The holder of a certificate or document referred to in section 7(3) of the Act, or his or her parent, next-of-kin or legal guardian must, if he or she or his or her parent, next-of-kin or legal guardian has been requested to do so, hand such certificate or document to the Director-General.

(2) An application for amendment or rectification of particulars made in terms of section 7(4) of the Act must be on Part F of DHA-24 illustrated in Annexure 1.

(3) The Director-General must, if satisfied that the particulars contained in the national population register are incorrect, amend or rectify such particulars by including the correct particulars in the national population register and link the new particulars to the previous particulars without erasing the previous particulars.

MISCELLANEOUS

Repeal of Regulations and savings

32.(1) The Regulations on the Registration of Births and Deaths, 2014, published by Government Notice No. 37373 of 26 February 2014, are hereby repealed.

(2) Anything done under a provision of the Regulations repealed by subregulation (1) which could have been done under a provision of these Regulations, shall be regarded as having been done under the provision of these Regulations.

Short title

33. These Regulations shall be called the Regulations on the Registration of Births and Deaths, 2018 and shall come into operation on XXX.

ANNEXURES

Annexure 1

DHA–24 (Notice of birth and amendment of personal details)

DHA–25 (Acknowledgement of receipt of a notice of birth)

Annexure 1A

DHA–24/PB (Proof of Birth)

Annexure 1B

DHA–24/A (Fingerprints Form)

Annexure 2

DHA–24/LRB (Notice of birth for late registration of birth)

Annexure 3

DHA–5 (Birth Certificate)

Annexure 4

DHA–19 (Confirmation of birth issued to non-South African citizens)

Annexure 5

DHA–529 (Determination of citizenship status)

Annexure 6

DHA–1663 (Death Register)

Annexure 7

DHA–1680 (Death report)

Annexure 8

DHA–1577 (Proof of notice of death)

Annexure 9

DHA–14/A (Burial order)

Annexure 10

DHA–18 (Death Certificate)

Annexure 11

DHA-6 (Declaration relating to a stillbirth by a person other than a medical practitioner)

Annexure 12

DHA–14B (Removal order)

Annexure 13

DHA–20 (Abridged Death Certificate)

Annexure 14

DHA-1774 (Application for designation as funeral undertaker)

Annexure 15

DHA-154/132/130 (Application for copy of a certificate)

G.P.-S 09/18

DHA-24



home affairs

 Department:
Home Affairs
REPUBLIC OF SOUTH AFRICA


B0000000001

NOTICE OF BIRTH AND AMENDMENT OF PERSONAL DETAILS

(Birth and Death Registration Act, 51 of 1992)

To be completed in full and submitted at the Department of Home Affairs' office or to a South African embassy or consulate. The form to be completed in **BLACK INK** with **BLOCK LETTERS**. Please tick with ☐ the CORRECT box, where required. **Write LEGIBLY**. Applications that are not legible shall not be accepted.

INSTRUCTIONS:

1. If the person whose particulars must be altered is 18 years of age or older, he / she must complete and sign the application form.
2. If the person concerned is under the age of 18 years, the parent or legal guardian must complete and sign the application form.
3. To verify, supplement or rectify any particulars, documentary proof of the correct particulars must be submitted together with the application form within seven days of issue of the particulars sought to be verified, supplemented or rectified.
4. The person concerned should apply for a new identity document at the nearest Regional or District Representative of the Department of Home Affairs.

 Birth Registration ☐ Within 30 days ☐

 Application for Amendment ☐

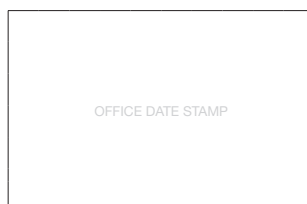
 ID number of person whose details are to be amended

Application for:	Applicable sections to be completed by client	Departmental Official Front Office	Head Office
Birth Registration	A1-A6	A7 and A8	
Assumption/Change of Surname	A1, A2, A3, A6, B1 or B2 and F	A7 and A8	H2
Re-registration	A1, A2, A3, A6, C, F and H1	A7 and A8	H2
Forename Change	A1, A2, A3, A6, D, F and H1	A7 and A8	H2
Insertion of Natural Father's details	A1, A2, A3, A6, E and F	A7 and A8	H2
False Registration	A1, A2, A3, A6, F and H1	A7 and A8	H2
Date of Birth Rectification	A1, A2, A3, A6, F and H1	A7 and A8	H2
Rectification of Sex Description	A1, A2, A3, A6, F and H1	A7 and A8	H2
Alteration of Sex Description and Sex Status (Act 49 of 2003)	A1, A2, A3, A6 and F	A7 and A8	H2
Rectification of Parents Particulars	A1, A2, A3, A6, F and H1	A7 and A8	H2
Place of Birth Rectification	A1, A2, A3, A6, F and H1	A7 and A8	H2
Rectification of Name/ Surname	A1, A2, A3, A6, F and H1	A7 and A8	H2
Recording of Adoption	A1, A2, A3, A6, and G	A7 and A8	H1, H2
Amplification of Birth Registration	A1, A2, A3, A6, and F	A7 and A8	H2

FOR OFFICE USE ONLY

NOTICE OF BIRTH AND AMENDMENT OF PERSONAL DETAILS

(only issue to acknowledge receipt if the birth certificate is not printed and for all amendment of personal details)



OFFICE DATE STAMP

DHA-25

User ID Signature 

B0000000001

 ID number of child (newly generated) or person whose details are to be amended

 ID / Passport / PR/ Refugee / Asylum Seeker Permit No. of applicant



B000000001

A4. ACKNOWLEDGEMENT OF PATERNITY OF A CHILD

I hereby declare that I am the biological father of the child

Initials and surname										Signature									
ID No./ Passport No./ PR/ Refugee/ Asylum Seeker No.																			
Date																			

Mother's consent to the acknowledgement of paternity

Initials and surname										Signature									
ID No./ Passport No./ PR/ Refugee/ Asylum Seeker No.																			
Date																			

NOTE: The palm, foot or fingerprints of the child must be taken and affixed below by an official of the Department.

LEFT	RIGHT

A5. PARTICULARS OF A PERSON WHO WITNESSED THE BIRTH (for a birth that occurred at a place other than a Health Facility)

ID No./ Passport No./ PR/ Refugee/ Asylum Seeker No.											
Date of birth											
Surname											
Previous/Maiden surname											
Forenames in full											
Physical address											
Street											
Town/Village											
Province											
Telephone no., incl. area code											
Cell phone no.											
E-mail address											
Relationship to Mother/Parent A											

Left thumbprint of Witness

NOTE: Attach online verification print out of witness. If not RSA citizen, attach fingerprint form.**DECLARATION BY PERSON WHO WITNESSED THE BIRTH**

I, _____, whose particulars appear in Part A above, hereby declare that the information supplied in this application is to the best of my knowledge and belief, true and correct. I understand that any false statement made in this application and supporting documents is an offence and punishable in terms of section 31 of the Births and Deaths Registration Act of 1992.

WITNESS

Initials and surname										Signature									
Date																			
Place																			



B000000001

A6. DETAILS OF THE APPLICANT / NEXT OF KIN / LEGAL GUARDIAN / SOCIAL WORKER (if Applicant is not the parent, please complete and submit Form DHA-288/B, where applicable)

Relationship to child, if next of kin:																												
ID No./ Passport No./ PR/ Refugee/ Asylum Seeker No.																			Date of birth	Y	Y	Y	Y	M	M	D	D	
Social Workers Case No:													(Attach copy of Court order)															
Surname																												
Forenames in full																												
Initials and surname												Signature																

A7. FOR OFFICIAL USE ONLY - FRONT OFFICE CLERK**APPLICATION RECEIVED AND VERIFIED BY:**

Surname																																								
First name																																								
User ID																																								
Stat	<table border="1"> <tr> <td>I</td><td>O</td><td>S</td><td>M</td> </tr> <tr> <td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td> </tr> </table>				I	O	S	M													Birth																			
I	O	S	M																																					

Office stamp - Office of Origin

DOCUMENTS SUBMITTED WITH THIS APPLICATION: PLEASE TICK ☒

<input type="checkbox"/> Proof of Birth Form (DHA-24/PB)	<input type="checkbox"/> Paternity test results (if applicable)	<input type="checkbox"/> Certified copy of the Foreign birth certificate of the child
<input type="checkbox"/> Certified copy of Mother's/Parent A's ID	<input type="checkbox"/> Copy of valid passport (all pages)	<input type="checkbox"/> Citizenship determination Form DHA-529 (SA Parent)
<input type="checkbox"/> Certified copy of Father's/Parent B's ID (if applicable)	<input type="checkbox"/> Certified copy of court order (abandoned/orphaned children)	<input type="checkbox"/> Citizenship determination Form DHA-529 (Child)
<input type="checkbox"/> Certified copy of Next of kin / Legal Guardian/Social Worker's ID	<input type="checkbox"/> Certified copy of death certificate (if applicable)	<input type="checkbox"/> Copy of refugee permit (s24 i/o Refugees Act), if applicable
<input type="checkbox"/> Certified copy of Marriage / Civil Union/ Customary Marriage Certificate of parents (if married)		<input type="checkbox"/> Copy of Asylum Seeker permit (s22 i/o Refugees Act), if applicable
<input type="checkbox"/> DHA-1658 if married religiously i.e. Muslim, Hindu		<input type="checkbox"/> Copy of permit (i/o Immigration Act), if applicable
<input type="checkbox"/> Certified copy of Social Worker's Registration Certificate		

Online verification performed and printouts attached for following persons:

<input type="checkbox"/> Mother (Parent A)	<input type="checkbox"/> Father (Parent B)	<input type="checkbox"/> Next of Kin	<input type="checkbox"/> Legal guardian	<input type="checkbox"/> Social worker	<input type="checkbox"/> Person who witnessed birth												
Date	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D	Signature

A8. APPLICATION RECEIVED AND VERIFIED: (SUPERVISOR)**STATUS**☐ Approved☐ Rejected

I, _____ hereby declare that I have received and verified the application, as indicated above approved / rejected* the application for a birth certificate. (* delete whichever is not applicable)

User ID										Date	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D	Signature
---------	--	--	--	--	--	--	--	--	--	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------



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B2. Application for authority to assume another surname (Section 26, Act 51 of 1992).

I,, hereby apply to assume the following surname

[illegible]

Reasons for my application (Please tick [✓] the CORRECT box) ☐ Change in marital status ☐ Assumption of biological father's surname

☐ Protection of Witness i.t.o Witness Protection Act, 1998 (Act No. 112 of 1998) [Attach relevant request letter]

I also wish to include in my application my spouse and minor children, whose particulars of birth are as follows (complete only if applicable):

PARTICULARS OF SPOUSE

Identity number											Date of birth	Y	Y	Y	Y	M	M	M	M	M	M	M	M	D	D						
Present surname																					<div>Left thumbprint of applicant</div>										
Forenames (in full)																															
Place of birth																															
Residential address	Street																														
	Town / Village											Code																			
Telephone no., incl. area code																					Cell phone no.										
E-mail address																															
Postal address																Province															

PARTICULARS OF CHILDREN (only minor biological or adopted children may be included)

Forenames in full and surname	Date of birth	Place of birth	Identity number (if not available, birth entry number)

Signature of applicant

Signature of spouse (if applicable)

Date signed

Y	Y	Y	Y
---	---	---	---

M	M	M	M	M	M	M	M	M	M
---	---	---	---	---	---	---	---	---	---

D	D
---	---

 Date signed

Y	Y	Y	Y
---	---	---	---

M	M	M	M	M	M	M	M	M	M
---	---	---	---	---	---	---	---	---	---

D	D
---	---

PART C: AMENDMENT OF BIRTH REGISTRATION OF A CHILD BORN OUT OF WEDLOCK

[Section 11(1) of the Births and Deaths Registration Act 51 of 1992]

NOTE: Only for use by the natural parents and if legally married to each other. NO PAYMENT OF FEE

WE ARE THE NATURAL PARENTS OF THE FOLLOWING CHILD (BORN OUT OF WEDLOCK)

Identity number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Date of Birth	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Registered Surname	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Forenames (in full)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Place of Birth	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Postal address	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

We have been married to each other since

Y	Y	Y	Y
---	---	---	---

M	M	M	M	M	M	M	M	M	M
---	---	---	---	---	---	---	---	---	---

D	D
---	---

 and as evidence thereof, our marriage certificate is enclosed.

We therefore apply for the amendment of the birth register of the above mentioned child in terms of section 11(1) of Act 51 of 1992.

DECLARATION

We declare under oath/solemnly that the particulars given above are to the best of our knowledge and belief true and correct. We understand that a false statement is punishable under section 31(1) of the Births and Deaths Registration Act 51 of 1992.

Signature of father

Signature of mother

COMMISSIONER OF OATHS

1. I certify that before administering the oath/affirmation, I asked the deponents the following questions and wrote their answers in their presence:

a) Do you know and understand the contents of this declaration?

Father _____ Mother _____

b) Do you have any objection to taking the prescribed oath?

Father

c) Do you consider the prescribed oath to be binding on your conscience?

Father

Thumbprint of Mother/
Parent A

Thumbprint of Father/
Parent B

[illegible]

(Section 24 of Act 51 of 1992)

[illegible]

Signature of Applicant

[Section 11(4) and (5) of the Births and Deaths Registration Act 51 of 1992]

Thumbprint of
Natural Father

Thumbprint of
Natural Mother



B0000000001

**PART F: VERIFICATION, SUPPLEMENTATION
OR RECTIFICATION OF PERSONAL PARTICULARS**
[Section 7(2) of the Births and Deaths Registration Act 51, 1992]

THIS APPLICATION IS FOR MYSELF ☐ OR FOR MY MINOR CHILD ☐

I HEREBY APPLY TO VERIFY, SUPPLEMENT OR RECTIFY THE FOLLOWING PARTICULARS: (please tick ☒)

☐ Surname Rectification ☐ Date of birth Rectification ☐ Rectification of sex description ☐ False registration (*particulars of incorrect parents recorded on the birth register*)
☐ Alteration of sex description (in terms of Act 49 of 2003) (Only write reasons for change below) ☐ Parents' particulars ☐ Forename Rectification ☐ Place of birth Rectification
☐ Amplification of birth Registration

REASON FOR CHANGING THE PARTICULARS

Briefly give your reasons for application. You may not write one word explanations like "personal" or "professional". If you do, your application cannot be processed.
Note: Your reason is taken into account when considering your application. You will be requested to provide documentation to substantiate your reason.

CURRENT PARTICULARS OF APPLICANT

Identity number
 Date of birth
 Surname
 Forenames (in full)
 Place of birth
 Residential address: Street
 Town / Village Code
 Telephone no., incl. area code Cell phone Province
 E-mail address

The particulars are erroneously recorded as:

The correct particulars must be as follows:

These correct particulars must be reflected in the Birth Register and/or Identity Document.

DECLARATION

I, (the applicant), hereby declare under oath that the information submitted is to the best of my knowledge and belief true and correct in case it is not true, I shall be guilty of an offence and on conviction liable to a fine or imprisonment for a period not exceeding five years or to both such fine and such imprisonment (Section 31(1)(b) of Act 51 of 1992)

Signature of deponent _____ Date signed

1. I certify that before administering the oath / affirmation I asked the deponent the following questions and wrote down his / her answers in his / her presence:

- 1.1 Do you know and understand the contents of this declaration? _____
- 1.2 Do you have any objection to taking the prescribed oath? _____
- 1.3 Do you consider the prescribed oath to be binding on your conscience? _____

2. I certify that the deponent has acknowledged that he / she knows and understands the contents of this declaration which was sworn to / affirmed before me and the deponent's signature / thumb-print / mark was placed thereon in my presence.

Surname
 Forenames in full
 Business address: Street
 Town / Village Code

Commissioner of Oaths

Designation/Rank

Date signed

PART G: RECORDING OF ADOPTION

[Only for use by the adoptive parents]



B0000000001

G1. WE ARE THE ADOPTIVE PARENTS OF THE FOLLOWING CHILD

Identity number

[illegible]

Date of birth

Y	Y	Y	Y
---	---	---	---

M	M	M	M	M	M	M	M	M
---	---	---	---	---	---	---	---	---

D	D
---	---

Surname

[illegible]

Forenames (in full)

[illegible]

Place of birth

[illegible]

We hereby apply to record the adoption of the child in *his / her birth register (*circle which is applicable).

The child will assume the following name and surname after the adoption:

Forenames

[illegible]

Surname

[illegible]

Signature of Mother / Parent A _____

Signature of Father / Parent B _____

G2. FOR OFFICIAL USE ONLY - OFFICE OF ORIGIN

APPLICATION RECEIVED BY:

Surname

[illegible]

Forenames in full

[illegible]

User ID

--	--	--	--	--	--	--	--

Date _____

Y	Y	Y	Y	M	M	D	D
---	---	---	---	---	---	---	---

Signature

Stamp

DOCUMENTS SUBMITTED WITH THIS APPLICATION:

PLEASE TICK ☒

☐ Birth certificate

☐ Copy of adoption order

☐ Other, specify

☐ Proof of payment



PART H

H1. PREVIOUS CORRECTIONS OR ALTERATIONS TO APPLICANT'S PARTICULARS

Please indicate any previous corrections or alterations to the applicant's particulars (i.e. surname, forename, date of birth, gender) or any changes to such particulars of the applicant's parents

Previous particulars	Particulars after correction or alteration	Date corrected or altered	Reason for correction or alteration

DECLARATION

We declare under oath/solemnly that the particulars given above are to the best of our knowledge and belief true and correct. We understand that a false statement is punishable under section 31(1) of the Births and Deaths Registration Act 51 of 1992.

Signature of mother

COMMISSIONER OF OATHS

1. I certify that before administering the oath/affirmation, I asked the deponents the following questions and wrote their answers in their presence:

a) Do you know and understand the contents of this declaration?

Mother

b) Do you have any objection to taking the prescribed oath?

Mother

c) Do you consider the prescribed oath to be binding on your conscience?

Mother

2. I certify that the deponents have acknowledged that they know and understand the contents of this declaration which was sworn to/affirmed before me and the deponents' signatures and thumbprints were placed thereon in my presence.

[illegible][illegible][illegible]

Commissioner of Oaths

Designation (Rank)

Office Stamp

H2. FOR OFFICIAL USE ONLY - HEAD OFFICE

RECOMMENDATION

<input type="checkbox"/> Recommended	<input type="checkbox"/> Not Recommended :	Reason
--------------------------------------	--	--------

[illegible][illegible]

User ID								Date	Y	Y	Y	Y	M	M	M	M	M	M	M	D	D
---------	--	--	--	--	--	--	--	------	---	---	---	---	---	---	---	---	---	---	---	---	---

Signature _____ Rank _____

DECISION

<input type="checkbox"/>	Approved	<input type="checkbox"/>	Refused:	Reason
--------------------------	----------	--------------------------	----------	--------

[illegible][illegible]

User ID Date Y Y Y Y M M M M M M M M M D D

Signature _____ Rank _____

G.P.-S. 09/18



REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF HOME AFFAIRS

Annexure 1A
PROOF OF BIRTH

DHA-24/PB



PB0000000001

The form must be completed in **BLACK INK** with **BLOCK LETTERS** for each child.

Hospital/Medical Facility Name

Facility Code

Nominal Register Number

NOTE: If birth occurred at a place other than a Hospital or Medical Facility, specify place of birth and estimated time

A. PARTICULARS OF HEALTH PRACTITIONER WHO ATTENDED THE BIRTH

Surname

Forenames in full

HPCSA/SANC Reg no.

Telephone no.

Cell phone no.

Signature

Date of birth

Y Y Y Y

M M M M M M M M M M

D D

(write month in full)

Health Facility Stamp

B. PARTICULARS OF MOTHER / PARENT A

Identity No./Passport No.

Citizenship

Date of birth

Y Y Y Y

M M M M M M M M M M

D D

(write month in full)

Surname

Previous/Maiden Surname

Forenames in full

Physical address:

Street

Postal Code

Town / Village

Province

Telephone no.

Cell No.

E-mail address

C. PARTICULARS OF FATHER / PARENT B

Identity No./Passport No.

Citizenship

Date of birth

Y Y Y Y

M M M M M M M M M M

D D

(write month in full)

Surname

Forenames in full

Physical address:

Street

Postal Code

Town / Village

Province

Telephone no.

Cell No.

E-mail address

D. PARTICULARS OF CHILD

Date of birth

Y Y Y Y

M M M M M M M M M M

D D

(write month in full)

Sex:

Surname

Forenames in full

Place of birth

Provide time of birth for each child

Child 1 Time

Child 2 Time

Child 3 Time

Child 4 Time

Child 5 Time

Child 6 Time

Signature of Parent

* If twins or more, provide time of birth for each child. For each child, complete separate (DHA-24/PB) and submit all forms together.

Annexure 1B

LEFT MALL	Photo of the CHILD only No photo required for Informant No photo is required where child is younger than 7 years	<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto;"> <div style="text-align: center; padding: 5px;">PHOTO</div> </div>	<div style="border: 1px solid black; padding: 2px; width: 60px; margin: 0 auto;">DHA-24/A</div>	RIGHT SMALL							
LEFT RING	FINGERPRINTS FOR THE NOTICE OF BIRTH <div style="text-align: center; color: gray; font-size: small;">DO NOT PHOTO COPY</div> <div style="text-align: center; font-size: x-small;">PLEASE NOTE: Fingerprints may only be taken by an official of the Department of Home Affairs. Should a finger be missing, deformed or so injured that the impression cannot be taken, this fact should be noted in the space provided for that impression.</div>				RIGHT RING						
LEFT MIDDLE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> FINGERPRINTS OF: Please tick appropriate box PERSONAL PARTICULARS <div style="border: 1px solid black; padding: 2px;"> CHILD Surname: _____ Forenames: _____ <div style="border: 1px solid black; padding: 2px;"> Date of Birth (YYYY/MM/DD) <div style="display: flex; justify-content: space-between;"> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> </div> </div> </div> </td> <td style="width: 50%; vertical-align: top;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">CHILD/ ADULT</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">INFORMANT</td> <td></td> </tr> </table> </td> </tr> </table>				FINGERPRINTS OF: Please tick appropriate box PERSONAL PARTICULARS <div style="border: 1px solid black; padding: 2px;"> CHILD Surname: _____ Forenames: _____ <div style="border: 1px solid black; padding: 2px;"> Date of Birth (YYYY/MM/DD) <div style="display: flex; justify-content: space-between;"> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> </div> </div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">CHILD/ ADULT</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">INFORMANT</td> <td></td> </tr> </table>	CHILD/ ADULT		INFORMANT		RIGHT MIDDLE
FINGERPRINTS OF: Please tick appropriate box PERSONAL PARTICULARS <div style="border: 1px solid black; padding: 2px;"> CHILD Surname: _____ Forenames: _____ <div style="border: 1px solid black; padding: 2px;"> Date of Birth (YYYY/MM/DD) <div style="display: flex; justify-content: space-between;"> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> <div style="width: 20px; height: 20px;"></div> </div> </div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">CHILD/ ADULT</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">INFORMANT</td> <td></td> </tr> </table>	CHILD/ ADULT		INFORMANT							
CHILD/ ADULT											
INFORMANT											
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Departmental office stamp – Office of origin

LEFT THUMB

RIGHT THUMB



I hereby declare that I am the biological father of the child

Mother's consent to the acknowledgement of paternity

[illegible]

ID No./ Passport No./ PR/ Refugee/
Asylum Seeker No. if foreigner

[illegible]

Does one of the parents have a pending application for asylum in the Republic? ☐ Yes ☐ No

If Yes, status of application and attach copy asylum seeker permit (s22 iro Refugees Act)

I, _____, hereby declare that the information supplied in this Application is to the best of my knowledge and belief, true and correct. I understand that any false statement made in this Application and supporting documents is an offence and punishable in terms of section 31 of the Births and Deaths Registration Act of 1992.

Applicant

<i>Initials and surname</i>	<i>Signature</i>
-----------------------------	------------------

Relationship to the child ☐ Mother (Parent A) ☐ Father (Parent B)

Child (15 years or older)

<i>Initials and surname</i>	<i>Signature</i>
-----------------------------	------------------

ID No./ Passport No./ PR/ Refugee/
Asylum Seeker No. if foreigner

ID No./ Passport No./ PR/ Refugee/ Asylum Seeker No. if foreigner																						Left thumbprint of Witness													
Date of birth		Y Y Y Y				M M M M M M M M M M								D D																					
Surname																																			
Previous/Maiden surname																																			
Forenames in full																																			
Physical address		Street																														Postal code			
Town/Village																						Province													
Telephone no., incl. area code												Cell phone no.																							
E-mail address																																			
Relationship to Mother / Parent A																																			

I, _____, whose particulars appear in Part A above, hereby declare that the information supplied in this Application is to the best of my knowledge and belief, true and correct. I understand that any false statement made in this Application and supporting documents is an offence and punishable in terms of section 31 of the Births and Deaths Registration Act of 1992.

		Date	Y	Y	Y	Y	M M M M M M M M M M	D	D
Initials and surname	Signature	Place							



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A8

PALM, FOOT OR FINGERPRINTS OF THE CHILD (To be taken and affixed below by an official of the Department.)

LEFT

RIGHT



L0000000001

A9.

7 years and above

LEFT SMALL	Photo of the CHILD only No photo required for informant No photo is required where the child is younger than 7 years	PHOTO <div style="border: 1px solid black; height: 80px; margin: 5px auto; width: 100px;"></div>	<div style="border: 1px solid black; padding: 2px; width: 60px; margin: 5px auto;">DHA-24/A</div>	RIGHT SMALL																																								
LEFT RING	FINGERPRINTS FOR THE NOTICE OF BIRTH DO NOT PHOTOCOPY PLEASE NOTE: Fingerprints may only be taken by an official of the Department of Home Affairs. Should a finger be missing, deformed or so injured that the impression cannot be taken, this fact should be noted in the space provided for that impression			RIGHT RING																																								
LEFT MIDDLE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">FINGERPRINTS OF: Please tick appropriate box</td> <td style="width: 50%;">CHILD/ADULT</td> </tr> <tr> <td>PERSONAL PARTICULARS</td> <td>INFORMANT</td> </tr> </table>			FINGERPRINTS OF: Please tick appropriate box	CHILD/ADULT	PERSONAL PARTICULARS	INFORMANT	RIGHT MIDDLE																																				
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LEFT THUMB	RIGHT THUMB																																											



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B3. PRE-SCHOOL OR CRECHE ATTENDED

Institution name																																		
Contact address	Street																																	
	Town/Village											Province																						
Telephone no., incl. area code											Cell phone no.											Postal code												
Contact person's name and surname																																		
Period of attendance (YYYYMMDD)	From	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D	To	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D

B4. PRIMARY SCHOOL ATTENDED

Was more than one school attended? Yes ☐ No ☐ If yes, provide details of the school with most verifiable information

Name of school																																		
Contact address	Street																																	
	Town/Village											Province																						
Telephone no., incl. area code											Cell phone no.											Postal code												
Contact person's name and surname																																		
Period of attendance (YYYYMMDD)	From	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D	To	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D
Grade at admission			Highest grade passed																															

B5. SECONDARY SCHOOL ATTENDED

Was more than one school attended? Yes ☐ No ☐ If yes, provide details of the school with most verifiable information

Name of school																																		
Contact address	Street																																	
	Town/Village											Province																						
Telephone no., incl. area code											Cell phone no.											Postal code												
Contact person's name and surname																																		
Period of attendance (YYYYMMDD)	From	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D	To	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D
Grade at admission			Highest grade passed																															

B6. TERTIARY INSTITUTION ATTENDED

Was more than one institution attended? Yes ☐ No ☐ If yes, provide details of the school with most verifiable information

Name of institution																																		
Contact address	Street																																	
	Town/Village											Province																						
Telephone no., incl. area code											Cell phone no.											Postal code												
E-mail address																																		
Contact person's name and surname																																		
Period of attendance (YYYYMMDD)	From	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D	To	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D
Course											Qualification obtained																							



Employer																																
Physical address	Street																															
	Town/Village																Province															
Postal address																																
	Province																					Postal code										
Telephone no., incl. area code											Cell phone no.																					
Contact person's name																																
Period of employment (YYYYMMDD)	From									To																						
Nature of work performed																																

The reference to the birth is	<input type="checkbox"/> Witness to the birth	<input type="checkbox"/> Family member	<input type="checkbox"/> Legal guardian	<input type="checkbox"/> Pastor/Priest	<input type="checkbox"/> Tribal authority	<input type="checkbox"/> Social worker	
	<input type="checkbox"/> Person who raised the person	<input type="checkbox"/> Other, please specify					
ID No.	<input type="text"/>			Citizenship	<input type="text"/>		
Date of birth (YYYYMMDD)	<input type="text"/>		Passport no./Permanent residence permit no.	<input type="text"/>			
Surname	<input type="text"/>						
Previous/Maiden surname	<input type="text"/>						
Forenames in full	<input type="text"/>						
Physical address	Street	<input type="text"/>					
	Town/Village	<input type="text"/>	Province	<input type="text"/>			
Postal address	<input type="text"/>						
	Province	<input type="text"/>	Postal code	<input type="text"/>			
Telephone no., incl. area code	<input type="text"/>	Cell phone no.	<input type="text"/>				
Registered place of birth	<input type="text"/>	Country of birth	<input type="text"/>				
Since what date have you been associated with a person whose birth is required to be registered?	Date	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

[illegible]



Surname as at birth																								
Forenames in full																								
Date of birth (YYYYMMDD)	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D		Sex						
Place of birth																								
Contact number																								

I, parent/legal guardian/next of kin of
 declare that I wish to register the birth of the above mentioned child after 30 days because of the following reason(s):

The deponent and the Commissioner of Oaths to initial each page of the Affidavit.

I,....., hereby declare under oath/affirm that the information submitted in this Affidavit and the Notice of Birth is true and correct, and I understand that a false statement is punishable under section 31 of the Births and Deaths Registration Act 51 of 1992.

[illegible]

I certify that before administering the oath I asked the deponent the following questions and wrote down his or her answers in his or her presence:

- (1) Do you know and understand the contents of this declaration? Answer: _____
- (2) Do you have any objection to taking the prescribed oath? Answer: _____
- (3) Do you consider the prescribed oath as binding on your conscience? Answer: _____

I certify that the deponent has acknowledged that he or she knows and understands the contents of this declaration which was sworn to/affirmed before me and that the deponent's signature or mark was affixed to the declaration in my presence.

Signature of the Commissioner of Oaths

Surname																										
Forenames																										
Designation (rank)																										
Persal number																										
Business Address																										
Area code																										
Place																										
Date	Y Y Y Y				M M M M M M M M M M												D D									
<div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>																										

Departmental Stamp



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C5. FOR OFFICIAL USE ONLY- OFFICE OF ORIGIN

Notice of birth and affidavit received by:

Surname	<input type="text"/>															
Forenames	<input type="text"/>															
Persal number	<input type="text"/>															
Signature	<input type="text"/>															
Date	<table><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td><td>M</td><td>M</td><td>M</td><td>M</td><td>M</td><td>M</td><td>M</td><td>M</td><td>M</td><td>D</td><td>D</td></tr></table>	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	D	D
Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	D	D		

Departmental Stamp

The deponent and the Commissioner of Oaths to initial each page of the Affidavit.

FOR OFFICE USE ONLY

DHA-25

APPLICATION FOR A BIRTH CERTIFICATE (AFTER 30 DAYS) - LRB

OFFICE DATE STAMP

Allocated Identity Number

<input type="text"/>

Identity Number Applicant

<input type="text"/>

User ID

<input type="text"/>

Signature



L0000000001

**home affairs**Department
Home Affairs
REPUBLIC OF SOUTH AFRICA

B3/DHA 5

PARTICULARS FROM THE POPULATION REGISTER I.R.O.:

UNABRIDGED**BIRTH CERTIFICATE**CHILD
SURNAME:
FORENAMES:

IDENTITY NUMBER:

GENDER:
PLACE OF BIRTH:
COUNTRY OF BIRTH:

DATE OF BIRTH:

MOTHER:

IDENTITY NUMBER:

MAIDEN/SURNAME:
FORENAMES:DATE OF BIRTH:
PLACE OF BIRTH:
COUNTRY OF BIRTH:

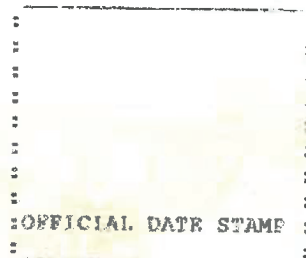
FATHER:

IDENTITY NUMBER:

SURNAME:
FORENAMES:DATE OF BIRTH:
PLACE OF BIRTH:
COUNTRY OF BIRTH:ENDORSEMENTS:
REGISTERED AT PRETORIA.....
DIRECTOR-GENERAL: HOME AFFAIRS

DATE PRINTED:

ISSUED BY:



: OFFICIAL DATE STAMP :

G.P.-S 09/18

DHA-19



CONFIRMATION OF BIRTH
(For non-South African citizens)

[Births and Deaths Registration Act 51 of 1992]

Section 9, Regulation 7(2) And 8(5)
Annexure 5



CB000000001

ISSUED WITHOUT ERRORS OR ALTERATIONS

Note: This is not a birth certificate. PLEASE register the birth of the child listed in this confirmation of birth in your country of citizenship. It is the responsibility of the parent(s) to obtain a passport for the child from their country of origin/Nationality and thereafter apply for a Visa/Permit for the child to sojourn in RSA.

A. PARTICULARS OF CHILD

Surname																								
Forenames in full																								
Date of birth	Y	Y	Y	Y	M	M	M	M	M	M	M	M	M	M	D	D	(write month in full)	Sex:						
Place of birth: City/Town													Country of Birth											

B. PARTICULARS OF MOTHER / PARENT A

Passport No / ID No.																								
Date of birth	Y	Y	Y	Y	M	M	M	M	M	M	M	M	D	D	(write month in full)	Refugee/Asylum Seeker Permit								
PR Permit No.																								
Surname																								
Maiden/Previous surname																								
Forenames in full																								
Place of birth: City/Town													Country of birth											
Nationality																								

C. PARTICULARS OF FATHER / PARENT B

Passport No / ID No.													Date of birth	Y	Y	Y	Y	M	M	D	D			
Date of birth	Y	Y	Y	Y	M	M	M	M	M	M	M	M	D	D	(write month in full)	Refugee/Asylum Seeker Permit								
PR Permit No.																								
Surname																								
Forenames in full																								
Place of birth: City/Town													Country of birth											
Nationality																								

D. ENDORSEMENTS

Director-General

Office Stamp



DEPARTMENT: HOME AFFAIRS
REPUBLIC OF SOUTH AFRICA

DETERMINATION OF CITIZENSHIP STATUS

INFORMATION TO BE FURNISHED IN FULL IN ORDER TO ASSIST IN DETERMINING YOUR CITIZENSHIP UNDER THE SOUTH AFRICAN CITIZENSHIP ACT, 1995 (ACT 88 OF 1995), WHICH CAME INTO OPERATION ON 6 OCTOBER 1995

A. PERSONAL PARTICULARS

1. SURNAME 2. MAIDEN NAME
3. FORENAMES (in full)
4. DATE OF BIRTH 5. PLACE OF BIRTH
6. IDENTITY NUMBER

--	--	--	--	--	--	--	--	--	--	--	--	--
7. If born outside South Africa, please state—
- (a) Date on which you first entered South Africa for permanent residence
- (b) The period(s) (dates) of your residence in South Africa
- (c) Number of immigration permit and date of issue
- (d) Number of certificate of naturalisation and date of issue
8. If born in Namibia, please state your permanent residential address as on 1990-03-21
9. If you were absent from South Africa state—
- (a) Date(s) of your departure
- (b) Reason(s) for your departure
- (c) The date on which you returned to South Africa permanently
10. Particulars in respect of foreign citizenship:
- (a) Citizenship acquired (country) (b) Date and place of acquisition
- (c) Means of acquisition of foreign citizenship, i.e. marriage, naturalisation, descent or registration? **(Please attach copy/proof thereof)**
- (d) Did you apply for the retention/re-instatement of South African citizenship? YES/NO. If YES, attach a copy of the relevant certificate.
11. Date of marriage of your parents 12. Place of marriage of your parents

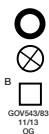
B. MARITAL STATUS

1. Please furnish the following particulars in respect of your spouse:
- (a) SURNAME..... (b) MAIDEN NAME.....
- (c) FORENAMES (in full).....
- (d) DATE OF BIRTH..... (e) PLACE OF BIRTH.....
- (f) IDENTITY NUMBER OF YOUR SPOUSE

--	--	--	--	--	--	--	--	--	--	--	--	--	--
- (g) Date on which he/she entered South Africa for the first time for permanent residence.....
- (h) Period(s) (dates) of residence in South Africa.....
- (i) Date of your marriage..... (j) Place.....
- (k) If applicable, the date of your husband's/wife's death or your divorce.....
- (l) Nationality of your spouse.....

DHA -529

- DATE
- SIGNATURE
- ADDRESS
-
-
- POSTAL CODE.....
- TELEPHONE NUMBER



G.P.-S. 09/09

DHA-1663 A
Page 2 of 3REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF HOME AFFAIRS

NOTICE OF DEATH / STILLBIRTH

[Births and Deaths Registration Act 51 of 1992]

[Regulations 11 and 14]

To be completed in full and submitted at the Department of Home Affairs office by the informant or authorised funeral undertaker. The form to be completed in **BLACK INK** with **BLOCK LETTERS**. Please mark with ☒ the CORRECT box, where required. **All fields are COMPULSORY. Incomplete applications and applications that are not legible may be considered invalid.** (Note: The fingerprints of the deceased, the informant and the undertaker must be taken by the undertaker)

B. CERTIFICATE BY ATTENDING MEDICAL PRACTITIONER / PROFESSIONAL NURSE

Instructions: Section B to be filled out by the same Medical Practitioner / Professional Nurse who completed Section A.

☐ 22.1 I, the undersigned, hereby certify that the deceased named in Section A, to the best of my knowledge and belief, died solely and exclusively due to **Natural Causes**

☐ 22.2 I, the undersigned, **am not** in a position to certify that the deceased died exclusively due to **Natural Causes**

Particulars of the Medical Practitioner / Professional Nurse who filled out the form:

23. HPCSA Registration No.

24. Surname																					
25. Forenames																					
26. Name of Health Facility / Practice											27. Facility / Practice No.										
28. Business Address: Street																					
Town											Province										
Telephone No. (Office)											Postal Code										

I, the undersigned, hereby certify that I examined the body of the deceased named in section A and declare that the deceased, to the best of my knowledge and belief, died solely and exclusively due to natural or unnatural causes as indicated in paragraph 22 and in case this is not true, I shall be guilty of an offence and on conviction liable to a fine or to imprisonment for a period not exceeding five years or to both such fine and such imprisonment (Section 31(1)(b) of the Act 51 of 1992.)

Place signed

Date signed

Signature

Office stamp of health facility or practice

C. CERTIFICATE BY MEDICAL PRACTITIONER/ FORENSIC PATHOLOGIST

Instructions: Section C to be filled out by Medical Practitioner or Forensic Pathologist, who is conducting medico-legal investigation of death.

29. I, the undersigned, hereby certify that a medico-legal investigation of death has been conducted on the body of the person whose particulars are given in Section A and that the body is no longer required for the purpose of the Inquest Act, 1959 (Act No. 58 of 1959) and the cause of death is:

☐ 30.1 Natural ☐ 30.2 Unnatural ☐ 30.3 Under investigation

31. Date of Post-mortem											33. Mortuary No.										
32. Name of Medico-legal Mortuary																					
34. Mortuary Reference Number of Deceased																					
35. SAPS Case No.											36. Name of Police Station										

Particulars of the Medical Practitioner / Forensic Pathologist who filled out the form:

36.1 HPCSA Registration No.

37. Surname																					
38. Forenames																					
39. Business Address: Street																					
Town											Province										
Telephone No. (Office)											Postal Code										

I, the undersigned, hereby certify that I examined the body of the deceased named in section A and the deceased, to the best of my knowledge and belief, died solely and exclusively due to natural or unnatural causes as indicated on paragraph 29 and in case this is not true, I shall be guilty of an offence and on conviction liable to a fine or to imprisonment for a period not exceeding five years or to both such fine and such imprisonment (Section 31(1)(b) of the Act 51 of 1992.)

Place signed

Date signed

Signature

Office stamp of mortuary

D. PARTICULARS OF INFORMANT

Instructions: Section D to be completed by informant. Informant is responsible for certifying the identity of the deceased.

40. Identity No. (Passport No. if foreigner)											41. Date of Birth										
42. Citizenship																					
43. Surname																					
44. Forenames																					
45. Residential Address: Street																					
Town											Province										
Telephone No. (Home)											Cellphone No.										

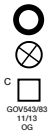
46. The Deceased is my: ☐ 46.1 Parent ☐ 46.2 Spouse ☐ 46.3 Child ☐ 46.4 Other, Specify

I, the undersigned, hereby certify that the identity of the deceased mentioned in section A is to the best of my knowledge and belief true and correct in case it is not true, I shall be guilty of an offence and on conviction liable to a fine or to imprisonment for a period not exceeding five years or to both such fine and such imprisonment (Section 31(1)(b) of the Act 51 of 1992.)

Signature

Date signed

Left thumb print of informant



G.P.-S. 09/09

DHA-1663 A
Page 3 of 3REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF HOME AFFAIRS

NOTICE OF DEATH / STILLBIRTH

[Births and Deaths Registration Act 51 of 1992]

[Regulations 11 and 14]

To be completed in full and submitted at the Department of Home Affairs office by the informant or authorised funeral undertaker. The form to be completed in **BLACK INK** with **BLOCK LETTERS**. Please mark with ☒ the CORRECT box, where required. **All fields are COMPULSORY. Incomplete applications and applications that are not legible may be considered invalid.** (Note: The fingerprints of the deceased, the informant and the undertaker must be taken by the undertaker)

E. PARTICULARS OF FUNERAL UNDERTAKER

Instructions: Section E to be completed by **Funeral Undertaker**. The undertaker must take his or her finger print, the finger print of the deceased and the informant. **Authorised Funeral Undertaker or Informant** may submit the completed form to the nearest Home Affairs office.

47. Name of Funeral Parlour																					
48. DHA Designation No.											49. Company Reg. No.										
50. SARS Reg. No. (Income tax reference no.)																					
Details of Funeral Undertaker or Authorised Representative																					
51. Identity No. (Passport No. if foreigner)											<div style="border: 1px solid black; width: 100%; height: 100%; text-align: center; vertical-align: middle;"> <p>Left thumbprint of funeral undertaker</p> </div>										
52. Surname																					
53. Forenames																					
54. Business Address																					
Street																					
Town																					
Province											Postal Code										
Telephone No. (Office)											Cellphone No.										
55. Date of collection of corpse											56. Date of Cremation (if applicable)	Y Y Y Y M M D D									
57. Place of Burial (City / Town / Village)											Province										
58. Date of Burial	Y Y Y Y M M D D										59. Grave No. (if available)										
Place signed																					
Date signed	Y Y Y Y M M D D										Signature _____										

Name of person who collected the deceased:

60. Identity No. (Passport No. if foreigner)																				
61. Surname																				
62. Forenames																				
Place signed																				
Date signed	Y Y Y Y M M D D										Signature _____									

Office stamp of funeral undertaker

F. FOR OFFICIAL USE ONLY**Registration of death approved, DHA-1663 received by (particulars of DHA official):**

63. Identity No.										
64. Surname										
65. Forenames										
66. Peral No.										

Documents included with this notice:

<input type="checkbox"/> Copy of the deceased's ID	<input type="checkbox"/> Copy of ID document of the informant
<input type="checkbox"/> DHA - 6 (if applicable)	<input type="checkbox"/> DHA - 1680 (if applicable)
<input type="checkbox"/> Informant	<input type="checkbox"/> Funeral Undertaker

DHA-1663 was submitted by:

Office stamp of DHA

**Confirmation for Medical and Health use Only**

To be completed in full and submitted at the Department of Home Affairs office by the informant or authorised funeral undertaker.
The form to be completed in **BLACK INK** with **BLOCK LETTERS**. Please mark with ☒ the **CORRECT** box, where required.
All fields are COMPULSORY. Incomplete applications and applications that are not legible may be considered invalid.
(Note: The fingerprints of the deceased, the informant and the undertaker must be taken by the undertaker)

This page must be sealed after completion to ensure confidentiality

ID No. (Passport No. if foreigner) [] [] [] [] [] [] [] [] [] [] File no _____ Date _____

DHA-1663 B
Page 1 of 1

FOLD TO
THIS POINT
↓

Instructions: Section G is to be filled out by Medical Practitioner /Professional Nurse / Forensic Pathologist, who has determined the cause of death

[illegible]

68. Gender	<input type="checkbox"/> 68.1 Male	<input type="checkbox"/> 68.2 Female	<input type="checkbox"/> 68.3 Indeterminable																				
69. Surname																							
70. Forenames																							
71. Population Group	<input type="checkbox"/> 71.1 African	<input type="checkbox"/> 71.2 White	<input type="checkbox"/> 71.3 Indian/Asian	<input type="checkbox"/> 71.4 Coloured	<input type="checkbox"/> 71.5 Other (specify) _____																		
72. Place of Death	<input type="checkbox"/> 72.1 Hospital/Inpatient	<input type="checkbox"/> 72.2 ER/Outpatient	<input type="checkbox"/> 72.3 DOA	<input type="checkbox"/>	<input type="checkbox"/> 72.4 Nursing Home	<input type="checkbox"/> 72.5 At home	<input type="checkbox"/> 72.6 Other (specify) _____																
73. Name of Health Facility/Practice																							
74. Facility Contact Telephone No. incl. Area Code																							
75. Patient File No.																							
76. Contact Person at Facility:																							
Surname																							
Forenames																							
Role/Rank																							

Instructions: Section G.1 is to be completed for **all deaths** that occurred after one week of birth

77. CAUSES OF DEATH		
Part 1	Enter the disease, injuries or complications that caused the death. Do not enter the mode of dying, such as cardiac or respiratory arrest, shock or heart failure. List only one cause on each line.	Approximate interval between onset and death (Days / Months / Years)

Part 1 Enter the disease, injuries or complications that caused the death. Do not enter the mode of dying, such as cardiac or respiratory arrest, shock or heart failure. **List only one cause on each line**

<p>IMMEDIATE CAUSE (final disease or condition resulting in death)</p> <p>Sequentially list conditions, if any, leading to immediate cause.</p> <p>Enter UNDERLYING CAUSE last (Disease or injury that initiated events resulting in death)</p>	a) _____
	Due to (or as a consequence of) _____
	b) _____
	Due to (or as a consequence of) _____
	c) _____
	Due to (or as a consequence of) _____
	d) _____
<p>Part 2 Other significant conditions contributing to death but not resulting in underlying cause given in Part 1</p>	

For office use only

ICD-10

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--	--	--	--	--

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--	--	--	--	--

--	--	--	--	--

78. If a **female**, was she pregnant at the time of death or up to 42 days prior to death? (☒) ☐ 82.1 Yes ☐ 82.2 No

79. Method used to ascertain the cause of death (tick all that apply):

<input type="checkbox"/> 79.1 Autopsy	<input type="checkbox"/> 79.2 Post mortem examination	<input type="checkbox"/> 79.3 Opinion of attending medical practitioner	<input type="checkbox"/> 79.4 Opinion of attending medical practitioner on duty
<input type="checkbox"/> 79.5 Opinion of registered professional nurse	<input type="checkbox"/> 79.6 Interview of family member	<input type="checkbox"/> 79.7 Other (specify) _____	

Instructions: Section G.2 is to be completed for all **stillbirths and deaths** that occurred within one week of birth (perinatal deaths)

Mother														Child													
80. Identity Number														89. Type of death: <input type="checkbox"/> 89.1 Stillbirth <input type="checkbox"/> 89.2 Live birth													
81. Date of Birth														90. Birth weight (in grams)													
82. Age of last birthday/ DOB unknown														91. This birth was: <input type="checkbox"/> 91.1 Single birth <input type="checkbox"/> 91.2 First twin													
83. Number of previous pregnancies resulting in:														91.3 Second twin <input type="checkbox"/> 91.4 Other multiple													
83.1 Live births														83.2 Stillbirths													
83.3 Abortions														92. If still born, heartbeat ceased:													
84. Outcome of last previous pregnancy (tick one):														92.1 Before labour													
84.1 Live birth														92.2 During labour but before delivery													
84.2 Stillbirth														92.3 Before delivery but not known whether before or during labour													
84.3 Abortion														93. If death occurred within 24 hours after birth, number of hours alive													
85. Date of last previous delivery														94. Attendant at birth:													
86. First day of last menstrual period														94.1 Physician													
Or, if unknown, estimated duration of pregnancy (in completed weeks)														94.2 Trained midwife													
87. Method of delivery:														94.3 Other trained person (specify)													
87.1 Spontaneous														94.4 Other (specify)													
87.2 Forceps delivery																											
87.3 Forceps and rotation																											
87.4 Vacuum extractor																											
87.5 Caesarean section																											
87.6 Other (specify)																											
88. Antenatal care two or more visits:																											
88.1 Yes																											
88.2 No																											
88.3 Unknown																											

a. Main disease or conditions in foetus or infant _____

b. Other diseases or conditions in foetus or infant _____

c. Main maternal disease or condition affecting foetus or infant _____

d. Other maternal diseases or conditions affecting foetus or infant _____

e. Other relevant circumstances _____

96. Autopsy information (☒)

<input type="checkbox"/> 96.1 Certified causes of death has been confirmed by autopsy	<input type="checkbox"/> 96.2 Autopsy information may be available later	<input type="checkbox"/> 96.3 Autopsy not performed
---	--	---



REPUBLIC OF SOUTH AFRICA
DEPT OF HOME AFFAIRS

CONFIDENTIAL
CONFIDENTIALITY SEAL, DO NOT OPEN, TAMPERING WITH THIS FORM IS A BREACH OF
CONFIDENTIALITY

The DHA-1663 Notice of Death/Stillbirth is Confidential.
This page can ONLY be opened by Statistics SA Officials.

TO OPEN: FOLD ALONG PERFORATION
AND TEAR

TO OPEN: FOLD ALONG PERFORATION
AND TEAR

TO OPEN: FOLD ALONG PERFORATION AND TEAR

This gazette is also available free online at www.gpwonline.co.za

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G P-S 83/HI-18

(83/BI-18)



UNABRIDGED DEATH CERTIFICATE
(Issued in terms of Act 51 of 1992)

[illegible]

2. Surname

3. Forenames in full

4. Date of birth: Year

--	--	--	--

 Month

--	--

 Day

--	--

 5. Gender

6. Occupation..... 7. Marital status.....

8. Country of birth

9. Nature of pension

10. Residential address

11. Date of death: Year Month Day

12. Place of death.....

13. Cause of death

14. Duration of disease or last illness.....

15. Name of medical practitioner

16. Intended place of burial

17. Capacity

18. Signed by

(Official date stamp)

.....
Director-General: Home Affairs

[illegible]

G.P.-S. 017-0150

DHA-20



DEPARTMENT: HOME AFFAIRS
REPUBLIC OF SOUTH AFRICA
ABRIDGED DEATH CERTIFICATE
(Issued in terms of Act No. 51 of 1992)

Certified a true extract from the death register of:

Identity number

Surname

Forenames in full

Date of birth: Year Month Day

Gender

Marital status

Date of death: Year Month Day

Place of death.....

Cause of death.....

(Official date stamp)

.....
Director-General: Home Affairs



REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF HOME AFFAIRS

DHA -1774

Annexure 21

APPLICATION FOR DESIGNATION AS FUNERAL UNDERTAKER

[Births and Deaths Registration Act 51 of 1992]

[Section 22A(1)]

To be completed by the **Applicant**. The form must be completed in **BLACK INK** with **BLOCK LETTERS**. Applications that are not legible shall not be accepted.

A. PARTICULARS OF BUSINESS OWNER (must be the Applicant)

Identity number											Date of birth	Y	Y	Y	Y	M	M	D	D								
Surname																											
Previous / Maiden Surname																											
Forenames in full																											
Address	Street																										
	Town / Village																										
	Province											Code															
Telephone number											Cell phone number																
E-mail address																			Fax								

Left thumbprint of
applicant

B. PARTICULARS OF BUSINESS

Name of business / funeral parlour																														
Business Reg. No (CIPC)																														
SARS Reg. No																														
Address																														
Street																														
Town / Village																														
Province																														
Telephone number																Code														
Cell phone number											Fax																			
E-mail address																														

C. DECLARATION BY BUSINESS OWNER

I, _____ hereby declare that the information provided in this form is true and correct. I understand that giving false information is an offence which is punishable in terms of section 31 of the Act.

Signature _____ Date signed

Y	Y	Y	Y
---	---	---	---

M	M
---	---

D	D
---	---

D. FOR OFFICIAL USE ONLY - OFFICE OF ORIGIN

APPLICATION RECEIVED BY:

Surname																
Forenames in full																
Persal number									<div style="border: 1px solid black; height: 100px; width: 100%; display: flex; align-items: center; justify-content: center;"> <i>Office stamp</i> </div>							
Date	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Y</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Y</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Y</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Y</div>				<div style="border: 1px solid black; padding: 2px; display: inline-block;">M</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">M</div>		<div style="border: 1px solid black; padding: 2px; display: inline-block;">D</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">D</div>									
Signature																

DOCUMENTS SUBMITTED:

- ☐ Copy of business owner's Identity document
- ☐ Certificate of competency from municipality
- ☐ Copy of SARS registration
- ☐ Copy of CIPC certificate
- ☐ Copy of registration with Federation / Association of Funeral Undertakers

E. Online verification performed on Business Owner and printout attached

☐ Business owner[illegible]

Date

Y	Y	Y	Y
---	---	---	---

M	M
---	---

D	D
---	---

F. APPLICATION VERIFIED:

STATUS

☐ Approved ☐ Rejected

I, _____ hereby declare that I have received and verified the application and have approved / rejected* the application. (* delete whichever is not applicable).

Allocated Designation Number:

[illegible]

Surname																
Forenames in full																
Persal number																
Signature											Date	Y	Y	Y	Y	M

Official Stamp

G.P.-S. 09/18

DHA-154/132/130



REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF HOME AFFAIRS

APPLICATION FOR COPY OF A CERTIFICATE

Annexure 16



A0000000001

To be completed in full and submitted at the Department of Home Affairs' office or to a South African embassy or consulate. The form to be completed in **BLACK INK** with **BLOCK LETTERS**.
Please mark with ☒ the CORRECT box, where required. **Applications that are not legible shall not be accepted.**

Please select below which certificate is required:

Birth Certificate <input type="checkbox"/>	Certified copy of Birth Register (vault copy) <input type="checkbox"/>	Certified copy of Death Register (vault copy) <input type="checkbox"/>
Death Certificate <input type="checkbox"/>	Confirmation of Birth <input type="checkbox"/>	Handwritten death certificate <input type="checkbox"/>
Certified copy of marriage register <input type="checkbox"/>	Marriage certificate <input type="checkbox"/>	Specify type of marriage _____

Please provide reasons for applying for this certificate:

A. PARTICULARS OF PERSON WHOSE CERTIFICATE IS REQUIRED

Identity number/Passport No.	<input type="text"/>	Birth entry number	<input type="text"/>
PR Permit No.	<input type="text"/>	Refugee/Asylum Seeker Permit	<input type="text"/>
Date of Birth	<input type="text"/>	Citizenship	<input type="text"/>
Surname	<input type="text"/>		
Previous/Maiden surname	<input type="text"/>		
Forenames in full	<input type="text"/>		
Place of birth: City/Town	<input type="text"/>		
District/Province of Birth	<input type="text"/>	Country of Birth	<input type="text"/>
Identity No/Passport No. of Spouse	<input type="text"/>	Death entry number	<input type="text"/>
Date of Marriage/Death	<input type="text"/>	Citizenship	<input type="text"/>
Place of Marriage/Death	<input type="text"/>		
Birth, Death, Marriage Entry No.	<input type="text"/>		
Place of Burial: City/Town	<input type="text"/>		
District/Province of Death	<input type="text"/>	Country of Death	<input type="text"/>

B. PARTICULARS OF APPLICANT

Identity number/Passport No.	<input type="text"/>	Citizenship	<input type="text"/>
PR Permit No.	<input type="text"/>	Refugee/Asylum Seeker Permit	<input type="text"/>
Surname	<input type="text"/>		
Forenames in full	<input type="text"/>		
Residential address: Street	<input type="text"/>		
Town/Village	<input type="text"/>		
District/Province	<input type="text"/>	Postal code	<input type="text"/>
Telephone no., incl. area code	<input type="text"/>	Cell phone no.	<input type="text"/>
E-mail address	<input type="text"/>		
Postal address	<input type="text"/>		
Province	<input type="text"/>	Postal code	<input type="text"/>
Relationship to the person concerned:	<input type="checkbox"/> Mother/Parent A <input type="checkbox"/> Father/Parent B <input type="checkbox"/> Legal guardian (Attach proof of guardianship) <input type="checkbox"/> Husband/Wife <input type="checkbox"/> Social Worker or Authorised Officer, provide case number: <input type="text"/> <input type="checkbox"/> Legal representative (Attach Power of Attorney) Next of kin: Specify <input type="text"/>		

I (the applicant), hereby declare under oath that the information submitted is to the best of my knowledge and belief true and correct and that in case it is not true I shall be guilty of an offence and on conviction liable to a fine or imprisonment or both such fine and such imprisonment.

Signature of Applicant: _____

Date:

DEPARTMENT OF JUSTICE AND CONSTITUTIONAL DEVELOPMENT**NO. 1086****12 OCTOBER 2018****SMALL CLAIMS COURTS ACT, 1984 (ACT NO. 61 OF 1984)****ESTABLISHMENT OF A SMALL CLAIMS COURT FOR THE AREA OF SOWETO
AND WITHDRAWAL OF GOVERNMENT NOTICE NO. 1248 OF 14 OCTOBER 2016**

I, John Harold Jeffery, Deputy Minister of Justice and Constitutional Development, acting under the power delegated to me by the Minister of Justice and Correctional Services, under section 2 of the Small Claims Courts Act, 1984 (Act No. 61 of 1984), hereby -

- (a) (i) establish a Small Claims Court for the adjudication of claims for the area of Soweto, consisting of the district of Soweto;
- (b) (ii) determine Soweto to be the seat of the said Court; and
- (b) (iii) determine Soweto, Kliptown, Lenasia, Meadowlands and Orlando to be the places in that area for the holding of sessions of the said Court.
- (d) withdraw Government Notice No. 1248 of 14 October 2016.

**MR J H JEFFERY, MP****DEPUTY MINISTER OF JUSTICE AND CONSTITUTIONAL DEVELOPMENT**

NATIONAL TREASURY

NO. 1087

12 OCTOBER 2018

**PUBLICATION OF EXPLANATORY SUMMARY OF DIVISION OF REVENUE
AMENDMENT BILL, 2018**

The Minister of Finance intends introducing the Division of Revenue Amendment Bill ("the Bill") in the National Assembly on 24 October 2018. The explanatory summary of the Bill is hereby published in accordance with rule 241(1)(c) of the Rules of the National Assembly.

The Bill proposes to amend the Division of Revenue Act, 2018 (Act No. 1 of 2018), in accordance with section 12(4) of the Money Bills Amendment Procedure and Related Matters Act, 2009 (Act No. 9 of 2009), since the national adjustments budget for the 2018/19 financial year necessitates changes to the Division of Revenue Act, 2018. The Bill is to be introduced together with the tabling of the national adjustments budget and revised fiscal framework for the 2018/19 financial year.

A copy of the Bill will be obtainable from the National Treasury's website at <http://www.treasury.gov.za> after introduction of the Bill on 24 October 2018, and also from:

Mr A Hendricks
Parliament
PO Box 15
Cape Town
8000
Telephone: 021 403 8223

DEPARTMENT OF PUBLIC SERVICE AND ADMINISTRATION**NO. 1088****12 OCTOBER 2018**

AMENDMENT OF PUBLIC SERVICE REGULATIONS, 2016 The Minister for the Public Service and Administration, acting under section 41 of the Public Service Act, 1994 (promulgated under Proclamation No. 103 of 1994), intends to amend the Public Service Regulations, 2016 (promulgated under Government Notice No. R. 877 of 29 July 2016), as set out in the Schedule.

Interested persons are invited to submit any substantiated comments or representations on the proposed amendments to the Department of Public Service and Administration (For the attention of the Director General, Private Bag X916, Pretoria, 0001, within a period of one month from the date of publication of this notice.



A DLODLO
MINISTER OF PUBLIC SERVICE AND ADMINISTRATION
DATE

ce100718

GENERAL EXPLANATORY NOTE:

[]

Words in bold type in square brackets indicate omissions from existing enactments.

Words underlined with a solid line indicate insertions in existing enactments.

SCHEDULE**Definition**

1. In this Schedule "the Regulations" means the Public Service Regulations, 2016 published in Government Notice No. R. 877 of 29 July 2016.

Amendment of regulation 66 of the Regulations

2. Regulation 66 of the Regulations is hereby amended—

(a) by the substitution in subregulation (1) for paragraph (a) of the following paragraph: " (a) an appointment in terms of section 9 of the Act for ~~—i~~ the term of office of the incumbent executive authority or Deputy Minister which will terminate at the end of the first month after the month which the term of that executive authority or Deputy Minister terminates for any reason; **[or**

(ii) a period not exceeding three years;]"; and

(b) by the addition of the following subregulation:

"(4) Any employee employed in terms of subregulation (1)(a) shall not be transferred to another post within the department or outside the executive authority or Deputy Minister's office without complying with regulation 65(1),(3) and (4)."

Amendment of Annexure 1 to the Regulations

3. Annexure to the Regulations is hereby amended by the addition of the following item:

(4) Any employee, who at the time of the coming into effect of the amendment to the Regulations, 2018, is employed in terms of regulation 66(1)(a) of the Regulations, shall not be transferred for the period of their employment, to another post within the department or outside the executive authority or Deputy Minister's office.. ..

DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM

NO. 1089

12 OCTOBER 2018

AMENDMENT OF GAZETTE NOTICE 1353 OF 2007 AS CONTAINED IN GOVERNMENT GAZETTE NUMBER 30413 IN RESPECT OF MUSINGADI, NDOUVHADA, MAKWATAMBANI AND FUNYUFUNYU COMMUNITIES LAND CLAIM

Notice is hereby given in terms of Section 11(4) of the Restitution of Land Rights Act, (Act No. 22 of 1994), as amended, that an error was committed on Gazette Notice 1353 Of 2007 dated 2 November 2007 as contained in Gazette number 30413. Instead of writing farm Buffelskom 764 MS the office wrote Remaining Extent of the farm Buffelskom 764 LS.

The above-mentioned gazette notice is hereby amended to rectify the property description of the farm Buffelskom 764 MS on behalf of Ndouvhada Community.


PROPERTY	PORTION	OWNER	TITLE DEED	EXTENT	ENDORSEMENTS	HOLDER
BUFFELSKOM 764 MS	-	LAS MANOS INV 128 PTY LTD	T64015/2007PTA	656.4975H	B1733/2011PTA B23/2008PTA B94853/2006PTA K65/1948MPTA CONVERTED FROM PTA MS, 764	NEDBANK LTD NEDBANK LTD - - - -

Take further notice that the Office of the Regional Land Claims Commissioner: Limpopo is processing this claim. Any party that has an interest in the above-mentioned property is hereby invited to submit in writing, within 30 (Thirty) days of publication of this notice, any comment, objection or information under reference number KRP 2327.

The Office of the Regional Office Land Claims Commissioner: Limpopo
Private Bag X 9552
Polokwane
0700

OR

Submission may also be delivered to:
First Floor, 96 Kagiso House
Corner Rissik & Schoeman Streets
Polokwane
0700


MR. L.H MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER

DATE: 2018/09/25

DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM

NO. 1090

12 OCTOBER 2018

GENERAL NOTICE IN TERMS OF THE RESTITUTION OF LAND RIGHTS ACT, 1994 (ACT NO. 22 OF 1994) AS AMENDED

Notice is hereby given in terms of section 11(1) (c) of the Restitution of Land Rights Act, 1994 as amended that a claim has been lodged for restitution of land rights on:

REF NO.	CLAIMANT	PROPERTIES	CURRENT LANDOWNERS	BONDS / NO BONDS	DEED OF TRANSFER	INTERESTED PARTIES
C0103	Mr. Teddy Edward Kamoo	Portion 14 of Erf 1830 of Albertville Township IQ	Francis Macdonald	Absa Bank B20950/2005 B27490/2001 B4919/2009	T43446/2001	Land beneficiaries Landowners City of Johannesburg Claimant
		Portion 15 of Erf 1830 of Albertville Township IQ	Nicola Patricia Pereira	Absa Bank B16369/2017 B28936/2011	T38161/2011	
		Portion 16 of Erf 1830 of Albertville Township IQ	Mzwandile Selywn Zulu and Happiness Zizipho Zulu	S B Guarantee Co RF Pty Ltd B30433/2016	T48303/2016	

have been submitted to the Regional Land Claim Commission and that the Commission on Restitution of Land Rights will investigate the claim in terms of the provisions of the Act in due course. Any interested person who has an interest in the above-mentioned land claim is hereby invited to submit, within 90 (ninety) working days from the publication any comments/information to:

Chief Directorate: Land Restitution Support Gauteng Province

Private Bag X03

ARCADIA

0007

Tel: (012) 310-6500

Fax: (012) 324-5812



MR. L.H. MAPHUTHA

REGIONAL LAND CLAIMS COMMISSIONER

DATE: 26/10/2018

DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM

NO. 1091

12 OCTOBER 2018

GENERAL NOTICE IN TERMS OF THE RESTITUTION OF LAND RIGHTS ACT, 1994 (ACT NO. 22 OF 1994) AS AMENDED

Notice is hereby given in terms of section 11(1) (c) of the Restitution of Land Rights Act, 1994 as amended) that a claim has been lodged for restitution of land rights on:

REF NO.	CLAIMANT	PORTION NUMBER	CURRENT LANDOWNERS	BONDS / NO BONDS	DEED OF TRANSFER	INTERESTED PARTIES
Z0371 (KRP 11797)	Mr. Mbolawa Jonias Mahlangu	Portion 7	Johannes Jansen van Rensburg	None	T74102/1992	Land Claimant, the current landowners and the City of Tshwane Metropolitan Municipality
		Portion 8	Johannes Jansen van Rensburg	Volkskas Bank B88832/1989	T58757/1988	
		Portion 9	Johannes Jansen van Rensburg	Volkskas Bank B88832/1989	T58757/1988	
		Portion 11 (a portion of portion 7)	Not registered at Deeds Office			

Take further notice that the Commission on Restitution of Land Rights will conduct further investigations on the claim in terms of the provisions of section 12 read with Rule 5 of the Rules Regarding Procedure of Commission Established in terms of section 16 of Restitution of Land Rights Act as amended. Any interested party on the claim is hereby invited to submit representations in terms of section 11A of the Restitution of Land Rights Act 22 of 1994 as amended within 90 (ninety) working days from the publication date of this notice, any comments/information may be send to:

Chief Directorate: Land Restitution Support Gauteng Province
Private Bag X03

ARCADIA

0007

Tel: (012) 310-6500

Fax: (012) 324-5812

MR. L.H. MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER

DATE: 2018/09/14

DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM

NO. 1092

12 OCTOBER 2018

AMENDMENT OF GAZETTE NOTICE NO 1197 OF 2007 AS CONTAINED IN THE GOVERNMENT GAZETTE NUMBER 30299 IN RESPECT OF MAMILWE COMMUNITY LAND CLAIM.

Notice is hereby given in terms of Section 11A (4) of the Restitution of Land Rights Act, 1994 (Act 22 of 1994), as amended, that an omission was committed on Gazette Notices 1197 of 2007 as contained in the gazette number 30299 in respect of property appearing on the table below, all situated within the magisterial District of Vhembe, Musina Municipality, Limpopo. The Gazette is amended to include the farm Nakab 184 MT.

Details of Lodgment

Mr Andries Thavhana Murunzi and Mr Mashudu Samuel Sithagu lodged the claims on behalf of Mamilwe on property mentioned in the table below on the 31st December 1998 and 09th November 1998 respectively.

Property Description	Current owner of the property	Title Deed Number	Extent of property	Endorsements	Holder
Nakab 184 MT	Clint Howes Family Trust	T8273/2002	1155.7529 H	None	No details

Take further notice that the Office of the Regional Land Claims Commissioner: Limpopo is investigating this land claim. Any party that has an interest in the above-mentioned property is hereby invited to submit in writing, within 90 days of publication of this notice, any comment, objection or information under reference numbers: **KRP 399**

The Regional Land Claims Commissioner: Limpopo
Private Bag X 9552
Polokwane
0700

OR Submissions may also be delivered to:
61 Biccard Street
Polokwane
0700


MR. LEBJANE MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER
DATE: 2018/10/13

DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM

NO. 1093

12 OCTOBER 2018

AMENDMENT OF GAZETTE NOTICE NO 161 OF 2012 AS CONTAINED IN THE GOVERNMENT GAZETTE NUMBER 35073 IN RESPECT OF MULENZHE COMMUNITY LAND CLAIM.

Notice is hereby given in terms of Section 11A (4) of the Restitution of Land Rights Act, 1994 (Act 22 of 1994), as amended, that an omission was committed on Gazette Notices 161 of 2012 as contained in the gazette number 35073 in respect of properties appearing on the table below, all situated within the magisterial District of Vhembe, Collins Chabane Local Municipality, Limpopo.

Details of Lodgment

Chief Tshililo Jeffrey Ramovha lodged the land claim on behalf of Mulenzhe Community on property mentioned in the table below on the 06th of November 1995 and 30th of December 1998 respectively.

Property Description and portions	Current Owner	Title Deed Number	Extent of property	Endorsements	Holder
The farm Mawambes Location 281 MT	Government of the Republic of South Africa	T43774/1989 PTA	1497.5362	I-3244/200LGPTA K2772/2016SPTA K3310/2005SPTA	None
R/E of the farm Locatie van de Knopneuzen 230 LT	National Government of the Republic of South Africa	T60384/1988 PTA	10009.3731	I-12922/2012CPTA I-4393/2016LGPTA I-1145/2010SPTA K1145/2010S PTA	None
R/E of Portion 2 of the farm Locatie van de Knopneuzen 230 LT	National Government of the Republic of South Africa	T5914/1990 PTA	21797.9359	K2318/2012S PTA K3111/2009S PTA	None

						K331/2000S PTA K332/2000S PTA I-12922/2012CPTA I-4390/2016LGPTA I-4389/2016LGPTA	
Portion 6 of the farm Locatie van de Knopneuzen 230 LT	Thulamela Municipality	Local	T17092/2006 PTA	31.5558	None	None	None
R/E of the farm Seelig 206 LT	Republiek van Suid Afrika		T14137/1989 PTA	1690.0599	I-4361/2016LGPTA K2318/2012SPTA K6375/1999SPTA	None	None
Portion 1 of the farm Seelig 206 LT	Noordelike Provinsie		T116562/1997 PTA	77.3653	None	None	None
The farm Natorp 227 LT	National Government of the Republic of South Africa		T16048/1989 PTA	1713.1297	I-1596/2010LGPTA I-12922/2012CPTA K5372/2012S PTA K5374/2012S PTA	None	None
R/E of the farm Malamulele 234 LT	National Government of the Republic of South Africa		T/44158/2001 PTA	6937.5111	I-16243/2002LGPTA I-4360/2016LGPTA I-4532/2016LGPTA K2008/2009S PTA K2808/2016S PTA K3855/2012S PTA	None	None

Portion 5 of the farm Malamulele 234 LT	Thulamela Municipality	Local	T35572/2006 PTA	177.5199	I-3259/2014CPTA	K5165/2015S PTA	
Portion 6 of the farm Malamulele 234 LT	Thulamela Municipality	Local	T35572/2006 PTA	121.9857	I-3259/2014CPTA		None
Portion 7 of the farm Malamulele 234 LT	Thulamela Municipality	Local	T35572/2006 PTA	86.2853	I-3259/2014CPTA		None
Portion 10 of the farm Malamulele 234 LT	Thulamela Municipality	Local	T35572/2006 PTA	58.6963	I-3259/2014CPTA I-16192/2010LGPTA		None
Portion 43 of the farm Malamulele 234 LT	Masingita Prop Inv Holdings PTY LTD	Inv	T33627/2015 PTA	1.4753	B21098/2015 PTA K3943/2014S PTA		Nedbank Ltd

Take further notice that the Office of the Regional Land Claims Commissioner: Limpopo is investigating this land claim. Any party that has an interest in the above-mentioned properties is hereby invited to submit in writing, within 90 days of publication of this notice, any comment, objection or information under reference numbers: **KRP 10540**

The Regional Land Claims
Commissioner: Limpopo
Private Bag X 9552
Polokwane
0700

OR Submissions may also be delivered to:
61 Biccard Street
Polokwane
0700


MR. LEBJANE MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER

DATE: 2018/09/13

DEPARTMENT OF SMALL BUSINESS DEVELOPMENT**NO. 1094****12 OCTOBER 2018****CALL FOR WRITTEN SUBMISSIONS FROM STAKEHOLDER BODIES AND
MEMBERS OF THE PUBLIC ON THE UPDATING OF SCHEDULE 1 OF THE NATIONAL
DEFINITION FOR SMALL ENTERPRISES IN SOUTH AFRICA**

I, Lindiwe D Zulu, Minister of Small Business Development hereby:

- a) Publish the following amended Schedule 1 for public commentary in terms of the National Small Enterprise Definition as contained in the National Small Enterprise Act, 1996 (Act No. 102 of 1996), read with the National Enterprise Amendment Act, 2003 (Act No. 26 of 2003) and the National Small Enterprises Act, 2004 (Act No. 29 of 2004).

AVAILABILITY OF THE LEGISLATION AND RESEARCH DOCUMENTS

- b) The Act referred to in paragraph 1, as well as the research that informed the updating of the schedule 1 of the National Definition for Small Enterprises in South Africa is available on request to the Department of Small Business Development, email: Legislation@dsbd.gov.za

CLOSING DATE

- c) The closing date for the receipt of comments is set as 30 days after publication of this Notice.

ADDRESS FOR SUBMISSIONS

- d) It would greatly assist the Department of Small Business Development if all submissions be in writing for the attention of the Legislation Development and Review Unit to the following address(es):

E-mail: Legislation@dsbd.gov.za

Or

Private Bag X84
Pretoria
0002

C/o Sector Policy and Research
Legislation Development and Review Unit
Ms Mpuse Setloboko



GENERAL EXPLANATORY NOTE

[] Words in bold type in square brackets indicate deletions from existing enactments
_____ Words underlined with a solid line indicate insertions into existing enactments

KEY AMENDMENTS

Upon analysis of research undertaken emanating from a series of Provincial and National stakeholder engagements, it is recommended that the following amendments be made to the Schedule of the Small Enterprise Definition as contained in the National Small Enterprise Act, 1996 (Act No. 102 of 1996), read with the National Enterprise Amendment Act, 2003 (Act No. 26 of 2003) and the National Small Enterprise Act, 2004 (Act No. 29 of 2004) to:

- Introduce new threshold values to account for inflation since the Schedule was last revised in 2003;
- Define small enterprise using two proxies instead of three i.e.: total Fulltime Equivalent of Paid Employees and Total Annual Turnover;
- Remove the third proxy of Total Gross Asset Value in the current definition as the proxy is often inappropriate and difficult to measure; and
- Remove the size or class category of "Very Small enterprise" which is part of the current definition and be subsumed into the category of "small enterprise", as many users found this size or class category unhelpful and inconsistent with international practice.

OBJECTIVES OF THIS STATEMENT

The Minister of Small Business Development is empowered by section 20 (2) of the National Small Enterprise Act, 1996 (Act No. 102 of 1996) to amend the Schedule in order to achieve the object of this Act.

The amendment of the schedule of the Small Enterprise Definition aims to ensure that these definitions are current, relevant and applicable to the structure and nature of SMMEs, thereby ensuring access to government support programmes while promoting their financial sustainability and ability to promote and create employment over the medium to long term.

Thereby recommended to:

- Revise the schedule in accordance with the 75th percentile distribution cut-offs from the statistical data generated by the SARS-NT panel;
- Adjust year on year for inflation (6%) to determine the sector cut-offs until 2020;
- Collapse "very small firms" (between 5 and 20 employment) with "small firms";
- Eliminate assets as a proxy since the asset proxy is difficult to administer due to complexities relating to the verification of assets and their actual values. This is further confirmed in the SARS-NT dataset based on the CIT data; and
- Update the SIC classifications and thresholds with Statistics South Africa data which are more accurate and based on company surveys.



CURRENT DEFINITIONS AND PROPOSED REVISIONS

The current definitions classify small enterprises into four size classes:

- “Micro-enterprise”;
- “Small Enterprise”;
- “Very Small Enterprise”; and
- “Medium Enterprise”.

- (1) These size classes will cover all forms of ownership and enterprise structures, including sole proprietors, partnerships, companies and cooperative enterprises; they also apply to formal and informal enterprises.
- (2) In defining these class sizes, three proxies were used: (1) number of people employed, i.e.: full time equivalents, (2) value of annual turnover and (3) value of assets.
- (3) The review into the use of the definitions and proxies found that many public and private agencies found it difficult to apply all these proxies and that the threshold value of turnover and assets were often inappropriate and difficult to measure. Thus, it is recommended that two proxies are used to define enterprises of different size classes.
- (4) Furthermore, consultations during the review found that the size class of “Very Small Enterprise” is not consistent with international practice and many agencies in South Africa found it to be unhelpful. Thus, it is recommended that the term “Very Small Enterprise” be abolished and subsumed into the size class of “Small Enterprise”.

THE REVISED DEFINITION

Purpose of a national definition of small enterprise - A national definition of small enterprise is required to officially identify small enterprises in order to:

- (1) Inform the design, management and assessment of business support measures (i.e.: programmes and services) in national and sub-national (i.e.: provincial and local) territories.
- (2) Measure change in the business sector (i.e.: statistical analysis).
- (3) Promote consistency in the use of terms in order to align government policy and legislation.

The new definition introduces three different categories of enterprises:

Small, medium and micro enterprises; and two proxies of total full time employment and total annual turnover.

THE LIMITATIONS OF THIS STATEMENT

The revised schedule updates have not captured any reference to the informal sector; these firms will be present in the Micro cut-offs threshold as proposed in the schedule.



GOVERNMENT NOTICE

DEPARTMENT OF SMALL BUSINESS DEVELOPMENT Revised National Definition of Small Enterprise in South Africa

I, **Lindiwe D Zulu**, Minister of Small Business Development, acting in terms of section 20 (2) of the National Small Enterprise Act, 1996 (Act No. 102 of 1996), hereby proclaim as follows, in matters pertaining to the Definition of Small Enterprise in South Africa-

Amend the schedule of the Small Enterprise Definition as contained in the National Small Enterprise Act, 1996 (Act No. 102 of 1996), read with the National Enterprise Amendment Act, 2003 (Act No. 26 of 2003) and the National Small Enterprises Act, 2004 (Act No. 29 of 2004) to:

- (1) Introduce new threshold values as at the beginning of 2014 to account for inflation,
- (2) Define small enterprise using two proxies instead of three i.e.: total Fulltime Equivalent of Paid Employees and Total Annual Turnover,
- (3) Remove the third proxy of Total Gross Asset Value in the current definition as the proxy is often inappropriate and difficult to measure,
- (4) Remove the size or class category of "Very Small enterprise" which is part of the current definition, and be subsumed into the category of "small enterprise". Many users found that this size or class category unhelpful and inconsistent with international practice.

In this proposed proclamation:

Definition of Small Enterprise

"Small enterprise" means a separate and distinct business entity, together with its branches or subsidiaries, if any, including cooperative enterprises, managed by one owner or more predominantly carried on in any sector or subsector of the economy mentioned in column 1 of the Schedule and classified as a [very small] micro, a small or a medium enterprise by satisfying the criteria mentioned in columns 3 and 4 [and 5] of the Schedule.

SCHEDULE*The new National Small Enterprise Act thresholds for defining enterprise size classes by sector, using two proxies*

Column 1	Column 2	Column 3	Column 4
Sectors or sub-sectors in accordance with the Standard Industrial Classification	Size or class of enterprise	Total full-time equivalent of paid employees	Total annual turnover
Agriculture	Medium	<u>250</u>	<u>35,0 million</u>
	Small	<u>50</u>	<u>17,0 million</u>
	Micro	<u>10</u>	<u>7,0 million</u>
Mining and Quarrying	Medium	<u>250</u>	<u>210,0 million</u>
	Small	<u>50</u>	<u>50,0 million</u>
	Micro	<u>10</u>	<u>15,0 million</u>
Manufacturing	Medium	<u>250</u>	<u>170,0 million</u>
	Small	<u>50</u>	<u>50,0 million</u>
	Micro	<u>10</u>	<u>10,0 million</u>
Electricity, Gas and Water	Medium	<u>250</u>	<u>180,0 million</u>
	Small	<u>50</u>	<u>60,0 million</u>
	Micro	<u>10</u>	<u>10,0 million</u>
Construction	Medium	<u>250</u>	<u>170,0 million</u>
	Small	<u>50</u>	<u>75,0 million</u>
	Micro	<u>10</u>	<u>10,0 million</u>
Retail, motor trade and repair services.	Medium	<u>250</u>	<u>80,0 million</u>
	Small	<u>50</u>	<u>25,0 million</u>
	Micro	<u>10</u>	<u>7,5 million</u>
Wholesale	Medium	<u>250</u>	<u>220,0 million</u>
	Small	<u>50</u>	<u>80,0 million</u>
	Micro	<u>10</u>	<u>20,0 million</u>
Catering, Accommodation and other Trade	Medium	<u>250</u>	<u>40,0 million</u>
	Small	<u>50</u>	<u>15,0 million</u>
	Micro	<u>10</u>	<u>5,0 million</u>
Transport, Storage and Communications	Medium	<u>250</u>	<u>140,0 million</u>
	Small	<u>50</u>	<u>45,0 million</u>
	Micro	<u>10</u>	<u>7,5 million</u>
Finance and Business Services	Medium	<u>250</u>	<u>85,0 million</u>
	Small	<u>50</u>	<u>35,0 million</u>
	Micro	<u>10</u>	<u>7,5 million</u>
Community, Social and Personal Services	Medium	<u>250</u>	<u>70,0 million</u>
	Small	<u>50</u>	<u>22,0 million</u>
	Micro	<u>10</u>	<u>5,0 million</u>


Lindiwe D Zulu, MP
Minister of Small Business Development
Date: 28/09/2018



DEPARTMENT OF TRADE AND INDUSTRY

NO. 1095

12 OCTOBER 2018



PRACTICE NOTE 01 OF 2018
QUALIFICATIONS OF PRACTITIONERS IN TERMS OF SECTION 138(1)

This practice note is issued in terms of Section 138(1) of the Companies Act of 2008 and is applicable to the licensing of Business Rescue Practitioners for companies and close corporations under supervision.

In 2011 when we commenced with the implementation of the Companies Act of 2008, certain provisions were new in our jurisprudence, *inter alia*, Chapter 6 of the Act which deals with Business Rescue and as a result the provisions of Chapter 6 were introduced in phases in line with the capacity of the organization at that point in time.

Section 138 of the Companies Act reads as follow:

“138 Qualification of practitioners

- (1) A person may be appointed as a business rescue practitioner of a company only if the person –
- (a) is a member in good standing of a legal, accounting or business management profession accredited by the Commission;
 - (b) has been licensed as such by the Commission in terms of subsection (2);
 - (c) is not subject to an order of probation in terms of section 162(7);
 - (d) would not be disqualified from acting as a director of the company in terms of section 69(8);
 - (e) does not have any other relationship with the company such as would lead a reasonable and informed third party to conclude that the integrity, impartiality or objectivity of that person is compromised by that relationship; and
 - (f) is not related to a person who has a relationship contemplated in paragraph (d).

Therefore section 138(1)(a)-(f) should be read cumulatively.

Having said the above the Commission didn't accredit the professions as provided for in section 138(1)(a) due to the lack of capacity until December 2015, before then individuals were licensed whether they were members in good standing of a legal, accounting or business management profession or not. This has resulted in an unintended consequence of dual licensing of members in good standing of accredited professional bodies and those who do not belong to accredited bodies.

While there were compelling reasons for the Commission not to stall the process of business rescue thus affording the companies under supervision the protection afforded to them by the Act, however it is clear that the Act does not permit the appointment of individuals who are not members in good standing of legal, accounting or business management professions.

The dti Campus (Block F - Entfufukweni), 77 Meintjies Street, Sunnyside, Pretoria I P O Box 429, Pretoria, 0001
Tel: +27 12 394 1358 | Fax: +27 12 394 6224 | Call Centre: 086 100 2472
Email: businessrescue@cipc.co.za | Website: www.cipc.co.za



Companies and Intellectual
Property Commission
a member of **the dti** group

Therefore henceforth, only individuals who are members in good standing of legal, accounting or business management professions will be licensed as business rescue practitioners and those who have been licensed and are not members of professional bodies their license will come to an end by effluxion of time as indicated in their licenses or affiliate to any of the accredited bodies for a possibility of renewing their licenses.

Adv. Rory Voller
Commissioner

....*Up*....*04*.../2018

DEPARTMENT OF TRADE AND INDUSTRY

NO. 1096

12 OCTOBER 2018

**PRACTICE NOTE 2 OF 2018****SUBJOINING JURISDICTION OF INCORPORATION FOR EXTERNAL COMPANIES**

This practice note is issued in terms of Regulation 4(2)(b) of the Companies Regulation, 2011 and is applicable to external companies.

The Companies and Intellectual Property Commission ("CIPC") in the interest of transparency of the origin or jurisdiction under which external companies are incorporated, will continue with the practice as established under the Companies Act, 61 of 1973 to subjoin to the name the statement "Incorporated in ...(stating the name of the jurisdiction)" in brackets.

Yours sincerely,

Adv R Voller

Commissioner: CIPC

28/09/2018

DEPARTMENT OF WATER AND SANITATION

NO. 1097

12 OCTOBER 2018

**NATIONAL WATER ACT, 1998
(ACT NO.36 OF 1998)****RESERVE DETERMINATION OF WATER RESOURCES FOR THE MVOTI TO
UMZIMKULU CATCHMENTS**

I, Deborah Mochotlhi, in my capacity as the Acting Director-General of the Department of Water and Sanitation, having complied with section 13 of the National Water Act, (Act No. 36 of 1998) ("the Act") and Regulation 3 of the Regulations for the establishment of Water Resource Classification System (No. R. 810 Government Gazette No. 33541, 17 September 2010), and duly authorised in terms of sections 16(1) and 63(1)(a) of the Act, after having complied with section 16(2) and (3) of the Act, hereby publish the Reserve determination of water resources for the catchments of the Mvoti to Umzimkhulu Catchments.



MS. DEBORAH MOCHOTLHI
ACTING DIRECTOR-GENERAL
DATE: 02/09/2018

RESERVE DETERMINATION OF WATER RESOURCES FOR THE CATCHMENTS OF THE MVOTI TO UMZIMKULU IN TERMS OF SECTION 16(1) AND (2) OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

SCHEDULE

1. DESCRIPTION OF WATER RESOURCE

1.1 The Reserve has been determined for all or part of the water resource within the catchments of the Mvoti to Umzimkulu as set out below:

Water Management Area:	Mvoti to Umzimkulu
Catchment:	U Primary Catchment
Drainage areas:	Secondary drainage areas T40 (Mtamvuna) and T52 (Umzimkulu)
River(s):	Major rivers include the Mvoti, uMngeni, uMkhomazi, Umzimkulu and Mtamvuna river systems
Estuarie(s):	Umkomaas and Mvoti

1.2 The Minister has in terms of section 12 of the National Water Act, 1998 (Act No.36 of 1998) ("the Act"), prescribed a system for classifying water resources by issuing Government Notice No. R. 810, published in Government *Gazette* No. 33541 dated 17 September 2010. In terms of section 16(1) of the Act, the Minister must, as soon as reasonably practicable after the class of all or part of a water resource has been determined, by Notice in the *Gazette*, determine the reserve for all or part of that water resource.

2. The Minister, in terms of section 16(3) of the Act, proposes, for the purpose of section 16(1) of the Act, the following Reserves for the catchments of Mvoti to Umzimkulu.

3. PROPOSED RESERVE DETERMINATION AS REQUIRED IN TERMS OF SECTION 16 (1) AND (2).

A summary of the quantity component for the River which include the EWR and the BHN in terms of section 16 (1) for the Mvoti to Umzimkhulu catchments is set out in Table 1.1-1-118.

A summary of the quality component for the River at EWR sites in terms of section 16 (1) for the Mvoti to Umzimkhulu catchments is set out in Table 2.1-2.12.

A summary of the BHN Reserve is set out in Table 3.2.

A summary of the groundwater contribution to the Reserve for Water Quantity & Quality in terms of section 16 (1) for the Mvoti to Umzimkhulu is set out in Table 4.1-4.3.

A summary of the EWR in terms of section 16 (1) for the Mvoti and uMkomazi estuaries is set out in Table 5.1-5.3.

A summary of wetlands Reserve assessment is set out in Table 6.1-6.4.

The Reserve will apply from the date signed off as determined in terms of Section 16(1) of the National Water Act, 1998, unless otherwise specified by the Minister.

ACRONYMS AND DEFINITIONS

Acronyms

BHN	Basic Human Needs
EcoSpecs	Ecological Specifications
EIS	Ecological Importance and Sensitivity
EWR	Ecological Water Requirement
GRAII	Groundwater Resource Assessment Phase II
GRDM	Groundwater Reserve Determination Methodology
GRUs	Groundwater Resource Units
IUA	Integrated unit of analysis
MAR	Mean Annual Runoff
MCM	Million Cubic Metres
nMAR	Natural Mean Annual Runoff
pMAR	Present Mean Annual Runoff
PES	Present Ecological Status
REC	Recommended Ecological Category
SQ	Sub-quaternary
TEC	Target Ecological Category
TPCs	Thresholds of Potential Concern

Definitions

Baseflow is a sustained low flow in rivers during dry or fair weather conditions, but not necessarily all contributed by groundwater; includes contribution from delayed interflow and groundwater discharge.

EWR refers to the flow patterns (magnitude, timing and duration) and water quality needed to maintain a riverine ecosystem in a particular condition.

Recharge the addition of water to the zone of saturation, either by downward percolation of precipitation or surface water and/ or the lateral migration of groundwater from adjacent aquifers.

Reserve the quantity and quality of the water required to satisfy the basic human needs by securing a basic water supply and to protect the aquatic ecosystem in order to secure ecologically sustainable development and use of the relevant water resource.

PROPOSED RESERVE FOR WATER RESOURCES AS REQUIRED IN TERMS OF SECTION 16(1) AND (2) OF THE NATIONAL WATER ACT, 1998

The Reserve consists of two parts – the BHN Reserve and the Ecological Reserve (ER). The BHN Reserve provides for the essential needs of individuals served by the water resource in question and includes water for drinking, food preparation and for personal hygiene. The ER relates to the water required to protect the aquatic ecosystems of the water resource. The Reserve refers to both the **quantity** and **quality** of the water in the resource, and will vary depending on the class of the resource (Class I, II and III).

1. SURFACE WATER QUANTITY COMPONENT FOR RIVERS AT SELECTED EWR SITES

Table 1.1: Summary of EWR sites

RU	Biophysical node and EWR site	River	Target EC	nMAR (MCM)	Low EWR flows (%nMAR)	Total EWR flows (%nMAR)	Sept*		Feb*	
							(m ³ /s)		(m ³ /s)	
							90%**	60%**	90%**	60%**
MRU MT B	T40E-05601 Mt_R_EWR1	Mtamvuna	C	79.22	19.1	32.1	0.332	0.525	1.157	1.606
uMKHOMAZI (U1): IUA U1-2										
MRU uMKHOMAZI B.3	U10E-04380 Mk_I_EWR1	uMkhomazi	C	683.17	18.1	27.2	0.890	1.458	4.130	5.542
uMKHOMAZI (U1): IUA U1-3										
MRU uMKHOMAZI C	U10J-04679 Mk_I_EWR2	uMkhomazi	B	890.91	14.2	35.8	1.551	2.869	5.991	10.488
uMKHOMAZI (U1): IUA U1-4										
MRU uMKHOMAZI D	U10M-04746 Mk_I_EWR3	uMkhomazi	C	1068.6	21.2	31.1	1.532	2.203	5.589	7.668
uMNGENI (U2): IUA U2-1										
MRU uMnA	U20A-04253 Mg_R_EWR1	uMngeni	C/D	79.22	10.1	21.7	0.016	0.098	0.179	0.327
uMNGENI (U2): IUA U2-2										
M KAR C	U20E-04170 Mg_R_EWR3	uMngeni	B	70.11	27.3	43.5	0.032	0.245	0.203	0.758
MRU uMnB	U20E-04243 Mg_I_EWR2	uMngeni	C	228.19	14.7	20	0.460	0.810	0.450	0.990
uMNGENI (U2): IUA U2-5										
MRU uMn D	U20L-04435 Mg_I_EWR5	uMngeni	D	583.66	21.2	24.3	0.856	2.017	1.655	2.477
MVOTI (U4): IUA U4-1 & U4-2										
MRU HEYNS A	U40B-03770 Mv_I_EWR1	Mvoti	C	17.36	18.2	27.9	0.030	0.037	0.067	0.093
MVOTI (U4): IUA U4-3										
MRU MVOTI C	U40H-04064 Mv_I_EWR2	Mvoti	C	273.96	14.4	21.2	0.174	0.402	0.622	1.336
LOVU (U7): IUA U7-1										
MRU LOVU D	U40H-04064 Lo_R_EWR1	Lovu	B/C	87.76	22.8	37.9	0.142	0.189	0.359	0.533

*September is also considered as a stress month since the other water users (i.e. irrigators etc.) demand on water increases after winter and is thus in competition for water with the ecology. *February was selected as the month of observation due to it typifying a wet month of the year.

** Percentage points on the monthly flow frequency distribution continuum at the nodes, expressed as the percentage of the months (90% and 60%) that the flow should equal or exceed the indicated minimum values.

MTAMVUNA (T4): IUA T4-1

IUA T4-1 - MTAMVUNA RIVER CATCHMENT



Table 1.2: IUA T4-1

RU	SQ	River	PES	REC	TEC
IUA T4-1					
RU MT1	T40A-05450	Mafadobo	B	B	B
	T40A-05487	Goxe	B/C	B	B
	T40C-05510	Mtamvuna	B/C	B	B
RU MT2	T40C-05530	Mtamvuna	B	B	B
	T40C-05566	Ludeke	B	B	B
	T40C-05589	KuNtlamvukazi	B	B	B
	T40C-05600	Ludeke	B	B	B
MRU MT B	T40C-05520	Mtamvuna	B/C	B/C	B/C
	T40D-05537	Mtamvuna	B	B	B
	T40D-05584	Mtamvuna	B	B	B
	T40D-05707	Mtamvuna	C	C	C
	T40E-05601	Mtamvuna	C	C	C
	Mt_R_EWR1	Mtamvuna	C	C	C
RU MT3	T40B-05337	Weza	C	C	C
	T40D-05615	Tungwana	B	B	B
	T40D-05643	Gwala	B	B	B
	T40D-05683	Ntelekweni	B/C	B/C	B/C
	T40D-05719	Londobezi	B	B	B
	T40E-05767	Hlolweni	B/C	B	B

Table 1.3: RU MT1

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	LowEWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep (m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T40A-05450										
B	27.6	26.2	7.34	26.60	10.102	36.60	0.124	0.207	0.159	0.268
T40A-05487										
B	30.0	28.4	7.76	25.9	10.76	35.9	0.144	0.303	0.373	1.464
T40C-05510*										
B	65	61.25	n/a	n/a	27.78	43	0.264	0.126	0.052	0.033

*Extrapolated from Mt_R_EWR1 (C REC).

Table 1.4: RU MT2

REC (EWR)	nMAR (MCM)	pMAR (MCM)	LowEWR flows (MCM)	Low EWR flows (%nMAR)	TotalEWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T40C-05566										
B	28.7	28.1	7.56	26.3	10.41	36.2	0.094	0.129	0.213	0.259
T40C-05589										
B	12.2	11.9	3.55	29.1	4.78	39.1	0.049	0.054	0.073	0.116
T40C-05600										
B	14.1	13.6	4.181	29.7	5.57	39.5	0.025	0.038	0.078	0.129
T40C-05530*										
B	95.8	91.46	n/a	n/a	40.9	42.65	0.178	0.060	0.043	0.020

*Extrapolated from Mt_R_EWR1 (C REC).

Table 1.5: MRU MT B WITH MT_R_EWR1

EWR	TEC (REC)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	70%	90%	70%
MT_R_EWR1 (T40E-05601)	C	79.22	60.46	44.43	19.1	74.76	32.1	0.33	0.53	1.16	1.61

Table 1.6: RU MT3

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	LowEWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T40B-05337										
C	74.40	52.60	13.94	18.70	20.37	27.40	0.1	0.12	0.29	0.5
T40D-05615										
B	2.2	2.0	0.65	29.30	0.90	40.40	0.007	0.011	0.013	0.02
T40D-05643										
B	5.6	5.3	1.55	27.70	2.17	38.70	0.024	0.029	0.027	0.039
T40D-05683										
B/C	8.9	8.6	2.04	22.90	2.94	33.00	0.035	0.040	0.031	0.048
T40D-05719										
B	4.6	4.5	1.23	26.70	1.75	37.90	0.020	0.025	0.031	0.041
T40E-05767										
B	22.5	22.3	5.306	23.5	8.117	36	0.055	0.115	0.095	0.148

UMZIMKULU (T5): IUA T5-1**IUA T5-1 - UPPER UMZIMKULU MOUNTAIN ZONE****Table 1.9: IUA T5-1**

RU	SQ	River	PES	REC	TEC
RU Mz1	T51A-04431	Mzimkhulu	B	B	B
	T51B-04421	Mzimkhulu	B	B	B
RU Mz2	T51A-04522	Mzimude	B	B	B
	T51A-04608		B	B	B
	T51A-04551	Mzimude	B/C	B	B
Ru Mz7	T51G-04669	Ndawana	B	B	B
	T51G-04751		B	B	B
RU Mz3	T51D-04404	Pholela	B	B	B
RU Mz5	T51F-04566	Boesmans	A	A	A
	T51F-04611	Ngwangwane	A	A	A

Table 1.10: RU Mz1

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T51B-04421										
B	246.2	224.3	37.34	15.2	65.33	26.5	0.051	0.091	1.233	2.176
T51A-04522										
B	43.2	40.8	6.09	14.4	11.2	25.9	0.018	0.022	0.248	0.409
T51A-04608										
B	1.6	1.5	0.24	15.5	0.41	26.0	0.0	0.0	0.003	0.007
T51A-04551										
B	58.8	54.3	10.08	17.1	17.07	29	0.014	0.033	0.284	0.588
T51G-04751										
B	3.0	2.5	0.48	15.9	0.8	26.6	0.0	0.0	0.007	0.014

UMZIMKULU (T5): IUA T5-2**IUA T5-2 - Middle Umzimkulu and Mzimkulwana Tributary****Table 1.11: IUA T5-2**

Table 1.14: RU Mz4

EWR	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T51E-04536										
C	8.6	6.8	1.31	15.1	1.98	22.9	0.003	0.010	0.014	0.045
MzEWR9r										
B/C	110.3	90	20.7	18.7	31.3	28.4	0.289	0.706	1.1	3.052

Table 1.15: Mz6

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T51F-04674										
C	2.8	1.7	0.23	8.1	0.49	17.1	0.0	0.0	0.004	0.008
T51F-04621(MzEWR8r)										
C	116.7	102.3	13.6	11.7	25	21.4	0.16	0.371	1.052	2.206
T40G-04722										
C	91.1	81.3	11.27	12.4	20.66	22.7	0.008	0.008	0.248	0.54

Table 1.16: RU Mz9

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T51H-04913										
B/C	16.7	13.3	2.4	14.6	4.06	24.3	0.008	0.019	0.043	0.090
T51H-04923 and MRU MzB MZEWR3i										
B	27.2	24.3	30.13	11.5	5.72	21.1	0.000	0.009	0.106	0.174
B	870.5	777.8	172.9	19.9	199.8	23	0.633	1.69	3.308	9.747

Table 1.17: RU Mz11

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
T52C-04880										
C	12.6	7.0	1.46	11.5	2.65	20.9	0.008	0.017	0.023	0.054
T52D-05024										
B	4.4	2.7	0.52	11.7	1.09	24.4	0.004	0.011	0.008	0.014
T52C-05061										
B	5.4	3.4	0.61	11.2	1.3	23.9	0.007	0.014	0.011	0.016

EWR	TEC (REC)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	70%	90%	70%
RU Mz12 MZEWR14i	PES B/C	194.6	160.9	60.7	31.2	83.3	42.8	Not available			
T52E-05053	B/C	55.5	43.71	9.33	16.8	14.2	25.6	0.035	0.096	0.137	0.259
T52F-05104	C	34.3	22.8	5.41	15.8	8.46	24.7	0.033	0.062	0.117	0.197
T52F-05190	B/C	47.3	35.2	9.38	19.8	13.9	29.4	0.041	0.092	0.152	0.259
T52F-05139	B	96.1	71.8	21.98	22.9	31.72	33	0.144	0.164	0.497	0.898
T52G-05226	B/C	19.2	16.9	3.32	17.3	5.16	26.9	0.026	0.036	0.077	0.129
T52G-05171	B	171.2	131.4	36.47	21.3	53.63	31.3	0.372	0.504	0.995	1.395
T52H-05244	B/C	9.4	8.9	1.05	11.2	2.17	23	0.008	0.016	0.011	0.025

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	70%	90%	70%
MRU MZ D MZEWR17i	B (REC)	42.5	30	10.13	23.8	12.6	29.6	0.143	0.441	0.295	0.803

A map of the T5-3 area, which is highlighted in yellow. The map shows several locations labeled with codes: T52D, T52C, T52H, T52J, T52M, T52K, U80E, U80B, U80A, U80F, U80G, U80I, U80J, U80K, U80L, U80M, U80N, U80O, U80P, U80Q, U80R, U80S, U80T, U80U, U80V, U80W, U80X, U80Y, U80Z. A legend indicates that the yellow area is 'Harding' and the blue area is 'Water'. The map also shows a network of roads and rivers.

RU	SQ	River	PES	REC	TEC
MRU MzC	MzEWR5i	Mzimkhulu	MzEWR6i		
	MzEWR6i T52J-05276	Mzimkhulu			
Ru Mz13	T52H-05295	Magogo	B	B	B
	T52H-05178	Bisi	MzEWR14r		
	T52H-05189	Bisi	MzEWR14r		

EWR	TEC (REC)	nMAR (MCM)	pMAR (MCM)	Low flows (MCM)	Low flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
MRU MzC MZEWR6i	A/B	1384	1184	352.9	25.5	417.7	30.2	3.294	13.704	10.514	48.582

REC							Sep(m ³ /s)	Feb(m ³ /s)
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(EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	90%	60%	90%	60%
T52H-05295										
B	5.8	4.8	0.95	16.2	1.56	26.7	0.0	0.0	0.011	0.020

uMKHOMAZI (U1): IUA U1-1

IUA U1-1 - uMKHOMAZI MOUNTAIN ZONE

Table 1.23: IUA U1-1



RU	SQ	River	PES	REC	TEC
RU Mk4	U10A-04115	Lotheni	A/B	A/B	A/B
	U10A-04202	Nhlathimbe	B	B	B
	U10A-04301	Lotheni	B	B	B
MRU uMkhomazi A	U10B-04239	uMkhomazi	B	B	B
	U10B-04337	uMkhomazi	B	B	B
RU Mk1	U10B-04274	Nhlangeni	A	A	A
	U10B-04251	uMkhomazi	A	A	A
RU Mk2	U10B-04343	Mqatsheni	B	B	B
RU Mk3	U10C-04347	Mkhomazana	B	B	B
RU MK5	U10D-04199	Nzinga	A	A	A
	U10D-04222	Rooidraai	B	B	B
	U10D-04298	Nzinga	B/C	B	B
MRU uMkhomazi B.1	U10D-04349	uMkhomazi	MK_I_EWR1US		
	U10D-04434	uMkhomazi			

Table 1.24: RU MK4

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10A-04202										
B	43.5	43.5	8.33	19.1	12.73	29.3	0.026	0.066	0.22	0.372
U10A-04301										
B	208.9	208.2	41.22	19.7	62.34	29.8	0.135	0.439	0.93	1.977

Table 1.25: RU MK2

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10B-04343										
B	37.3	36.3	7.57	20.3	11.34	30.4	0.022	0.061	0.186	0.353

Table 1.26: RU MK3

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10C-04347										
B	96.1	91.7	18.79	19.6	28.51	29.7	0.086	0.117	0.444	0.793

Table 1.27: MRU U10D

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low flows (MCM)	Low flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10D-04222										
B	13.4	12.9	2.70	20.2	4.05	30.4	0.013	0.023	0.061	0.136
U10D-04298										
B	82.4	80.4	15.91	19.3	24.3	29.4	0.076	0.182	0.388	0.711

uMKHOMAZI (U1): IUA U1-2**IUA U1-2 - MIDDLE uMKHOMAZI**

Table 1.28: IUA U1-2

RU	SQ	River	PES	REC	TEC
MRU uMkhomazi B.2	U10E-04380 Mk_I_EWR1US	uMkhomazi	C	C	C
	U10F-04528US	uMkhomazi	MK_I_EWR1US		
MRU uMkhomazi B.3	U10F-04528DS Mk_I_EWR1DS	uMkhomazi	C	C	C
RU6	U10F-04560	Luhane	B/C	B/C	B/C
RU7	U10G-04388	Elands	C	B	B
	U10G-04405		C	C	C
	U10G-04473	Elands	C	B	B

Table 1.29: MRU uMKHOMAZI MK_I_EWR1 US (U10E-04380) (INCLUDING U10F-04528US) B.3 WITH MK_I_EWR1DS (U10F-04528DS)

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
MK_I_EWR1	REC: C	683.17	660.72	123.707	18.1	186.07	27.2	0.89	1.42	4.13	5.54
MK_I_EWR1 (DS of dam)	REC: C	683.17	660.72	206.9	30.2	540.5	79.1	2.339	2.82	16.12	35.22

Table 1.30: RU MK

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10F-04560										
C	36.3	33.1	4.86	13.4	8.28	22.8	0.02	0.053	0.034	0.157

Table 1.31: RU MK7

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10G-04388										
B	18.9	16.6	3.95	20.9	6.01	31.8	0.016	0.031	0.029	0.136
U10G-04405										
C	8.7	6.9	1.52	17.5	2.32	26.8	0.005	0.015	0.01	0.05
U10D-04473										
B	67.1	59.5	12.88	19.2	20.51	30.5	0.048	0.111	0.089	0.272

uMKHOMAZI (U1): IUA U1-3

IUA U1-3 - UMKHOMAZI GORGE ZONE



Table 1.32: IUA U1-3

RU	SQ	River	PES	REC	TEC
RU8	U10H-04576	Tholeni	B	B	B
RU9	U10H-04666	Ngudwini	B/C	B	B
	U10H-04708	Ngudwini	B	B	B
	U10H-04729	Mzalanyoni	C	C	C
MRU uMkhomazi B.4	U10H-04638	uMkhomazi	Mk_I_EWR2		
	U10H-04675	uMkhomazi			
MRU uMkhomazi C	U10J-04679 Mk_I_EWR2	uMkhomazi	B	B	B
RU10	U10J-04721	Pateni	B	B	B

Table 1.33: RU MK 8

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10H-04567										
B	14.1	10.7	2.57	18.3	4.15	29.5	0.012	0.019	0.036	0.061

Table 1.34: RU MK9

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10H-04666										
B	20.4	13.2	2.48	12.2	4.57	22.5	0.002	0.002	0.045	0.073
U10H- 04708										

C	47.2	35.6	7.02	14.9	12.4	26.3	0.007	0.012	0.122	0.204
U10H-04729										
B	23.0	19.6	4.4	19.1	7.01	30.5	0.016	0.038	0.031	0.093

Table 1.35: MRU uMKHOMAZI C WITH MK_I_EWR2

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
MK_I_EWR2	REC: B	890.91	838.35	151.2	14.2	241.5	35.8	1.551	2.869	5.991	10.488
	B	890.91	838.35	262.1	29.4	677	76	2.743	2.37	18.125	46.35

Table 1.36: RU MK 10

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10J-04721										
B	6.2	4.0	1.43	22.9	2.13	34.3	0.008	0.017	0.014	0.045

uMKHOMAZI (U1): IUA U1-4

IUA U1-4 - LOWER uMKHOMAZI

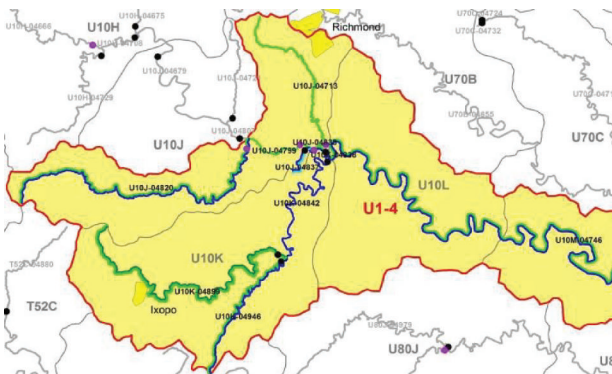


Table 1.37

RU	SQ	River	PES	REC	TEC
RU11	U10J-04820	Lufafa	B/C	B	B
MRU uMkhomazi D	U10J-04807	uMkhomazi	Mk_I_EWR3		
	U10J-04799	uMkhomazi			
	U10J-04833	uMkhomazi			
	U10K-04838	uMkhomazi			
	U10M-04746	uMkhomazi	C	C	
RU12	U10J-04713	Mkobeni	C	B	B
	U10K-04842	Nhlavini	B	B	B
	U10K-04899	Xobho	C/D	C/D	C/D
	U10K-04946	Nhlavini	B/C	B/C	B/C

Table 1.38: RU MK 11

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10J-04820										
B	26.1	21.5	4.26	16.3	6.94	26.6	0.023	0.04	0.057	0.094

Table 1.39: MRU uMKHOMAZI D WITH MK_I_EWR3

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
MK_I_EWR3	REC: C	1068.6	983.23	223.42	21.2	332.8	31.1	1.532	2.203	5.589	7.668
	C	1068.6	983.23	308.6	28.9	813.5	76.1	2.743	3.383	19.944	48.722

Table 1.40: RU MK12

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U10J-04713										
B	13.9	11.7	2.86	20.6	4.34	31.5	0.012	0.022	0.024	0.102
U10K-04842										
B	40.2	29.0	6.19	15.4	10.48	26.1	0.012	0.045	0.086	0.286
U10K-04899										
C/D	19.1	11.8	2.05	10.7	3.61	18.9	0.0	0.0	0.014	0.08
U10K-04946										
B/C	6.7	4.5	0.99	14.8	1.65	24.8	0.0	0.0	0.012	0.034

uMNGENI(U2): IUA U2-1

IUA U2-1 - uMNGENI: UPSTREAM OF MIDMAR DAM

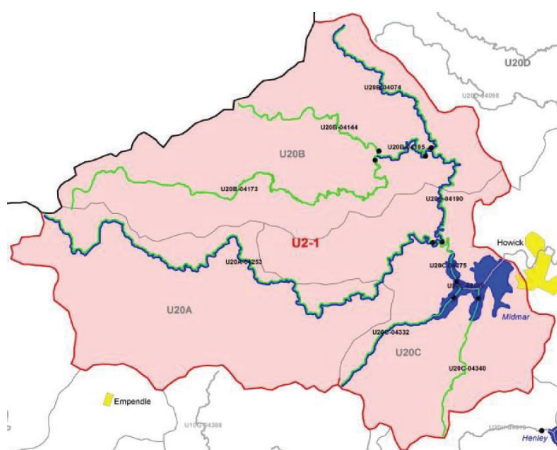


Table 1. 41: IUA U2-1

RU	SQ	River	PES	REC	TEC
MRU uMnA	U20A-04253 Mg_R_EWR1	uMngeni	C/D	C/D	C/D
	U20C-04275	uMngeni	Linked to Mg_R_EWR1		
RU uMn1	U20B-04074	Ndiza	B/C	B	B
	U20B-04144 us IBT	Mpofana	C	C	C
	U20B-04173	Lions	C	B	B
RU uMn2	U20B-04144 ds IBT	Mpofana	C	C	C
	U20B-04185	Lions	B/C	B	B/C
	U20C-04190	Lions	B/C	B	B
RU uMn3	U20C-04332	Gqishi	B/C	B	B
	U20C-04340	Nguklu	C	C	C

Table 1.42: MRU uMnA WITH Mg_R_EWR1

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
Mg_R_EWR1	REC: C/D	79.22	60.46	8.013	10.1	17.221	21.7	0.016	0.098	0.179	0.327

Table 1.43: RU uMn1

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20B-04074										
B	12.3	10.9	2.73	22.2	3.89	31.7	0.011	0.035	0.016	0.068
U20B-04173										
B	39.8	34.3	6.64	16.6	10.11	25.4	0.029	0.142	0.036	0.235

Table 1.44: RU uMn3

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total EWR (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20C-04332										
B	15.9	12.9	3.48	21.9	4.91	30.9	0.004	0.023	0.019	0.113
U20C-04340										
C	7.0	5.9	1.35	19.3	1.94	27.7	0.004	0.012	0.011	0.039

uMNGENI(U2): IUA U2-2

MIDMAR DAM TO ALBERT FALLS DAM

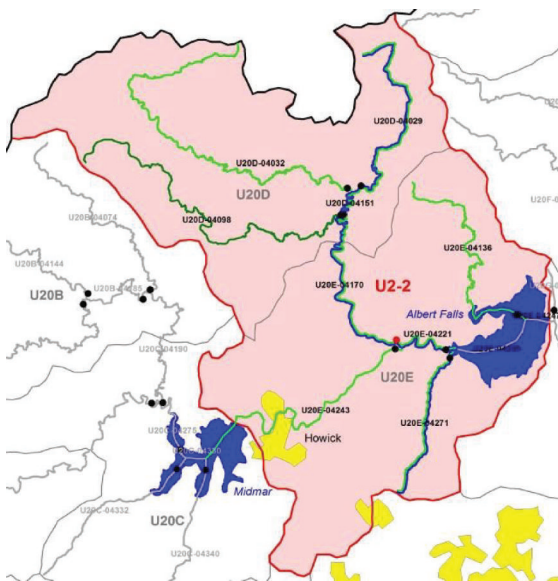


Table 1.45: IUA U2-2

RU	SQ	River	PES	REC	TEC
RU uMn4	U20D-04029	Yarrow	B/C	B	B
	U20D-04098	Kusane	D	D	D
MRU KarA	U20D-04032	Karkloof	C	C	C
MRU KarB	U20D-04151	Karkloof	B/C	B	B
MRU KarC	U20E-04170 Mg_R_EWR 3	Karkloof	B	B	B
MRU uMnB	U20E-04221	uMngeni	B/C	B/C	B/C
	U20E-04243 Mg_I_EWR 2	uMngeni	C	C	C
RU uMn5	U20E-04136	Nculwane	C	C	C
	U20E-04271	Doring Spruit	B/C	B/C	B/C
RU uMn6	U20F-04011	Sterkspruit	C/D	C/D	C/D
	U20F-04095 in IUA U2-3	Mpolweni	C/D	C/D	C/D

Table 1.46: RU uMn4 (U20D-04029, 04098)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20D-04029										
B	11.6	7.8	2.02	17.5	3.18	27.5	0.006	0.021	0.018	0.063
U20D-04098										
D	16.9	12.5	2.28	13.5	3.48	20.7	0.003	0.012	0.011	0.065

Table 1.47: MRU KarA (U20D-04032)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20D-04032										
C	29.72	26.54	n/a	n/a	13.10	44	0.056	0.009	0.010	0.001

*Extrapolated from Mn_R_EWR3 (Karkloof River, B EcoStatus).

Table 1.48: MRU KarB (U20D-04151)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20D-04151										
B	42.22	35.19	n/a	n/a	18.61	44	0.079	0.012	0.015	0.002

*Extrapolated from Mn_R_EWR3 (Karkloof River, B EcoStatus).

Table 1.49: KarC WITH Mg_R_EWR3

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
Mg_R_EWR3	REC: B	70.11	56.5	19.111	27.3	30.489	43.5	0.032	0.245	0.203	0.758

Table 1.50: MRU uMnB WITH Mg_I_EWR2

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
Mg_I_EWR2	REC: C	228.19	105.4	33.5	14.7	45.61	20.0	0.46	0.81	0.45	0.99

Table 1.51: RU uMn5

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20E-04136										
C	14.2	10.7	1.88	13.3	3.19	22.5	0.004	0.016	0.016	0.064
U20E- 04271										
B/C	8.1	6.5	1.60	19.7	2.36	29.1	0.006	0.022	0.014	0.041

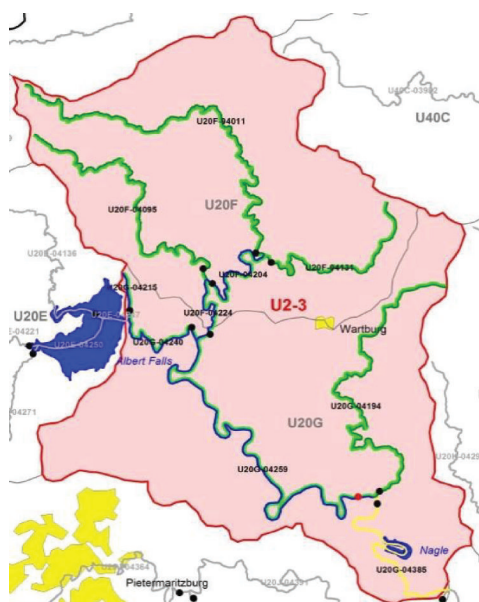
Table 1.52: RU uMn6

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20F-04011										
C/D	30.3	13.4	3.33	11.0	5.61	18.5	0.004	0.036	0.017	0.096
U20F-04095										
C/D	17.6	7.8	1.44	8.2	2.83	16.1	0.004	0.017	0.011	0.074

uMNGENI (U2): IUA U2-3

IUA U2-3: uMNGENI DOWNSTREAM OF ALBERT FALLS DAM TO uMNSUNDUZE CONFLUENCE

Table 1.53: IUA U2-3



RU	SQ	River	PES	REC	TEC
RU uMn7	U20F-04131	Mhlalane	C/D	C/D	C/D
	U20F-04204	Sterkspruit	B/C	B/C	B/C
	U20F-04224	Mpolweni	B/C	B/C	B/C
	U20G-04194	Mkabela	C/D	C/D	C/D
	U20G-04215	Cramond Stream	B/C	B/C	B/C
MRU uMnC	U20G-04240	uMngeni	B/C	B/C	B/C
	U20G-04259	uMngeni	B/C	B	B/C
	U20G-04385	uMngeni	B/C	B/C	B/C

Table 1.54: Ecospecs FOR RU uMn7

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20F-041131										
C/D	14.5	6.3	1.52	10.5	2.59	17.9	0.004	0.015	0.011	0.06
U20F-04204										
B/C	48.8	22.4	5.67	11.6	9.61	19.7	0.012	0.065	0.053	0.185
U20F-04224										
B/C	70.7	33.6	9.85	13.9	15.43	21.8	0.015	0.101	0.073	0.336
U20G-04194										
C/D	19.9	16.8	1.6	8.0	3.4	17.1	0.005	0.016	0.013	0.081

U20G-04215										
B/C	0.8	0.7	0.09	11.2	0.17	21.0	0.0	0.0	0.0	0.002

Table 1.55: MRU uMnC

SQ	River	PES	REC	Requirement	TEC
U20G-04259	uMngeni	B/C	B	No change in operation possible.	B/C

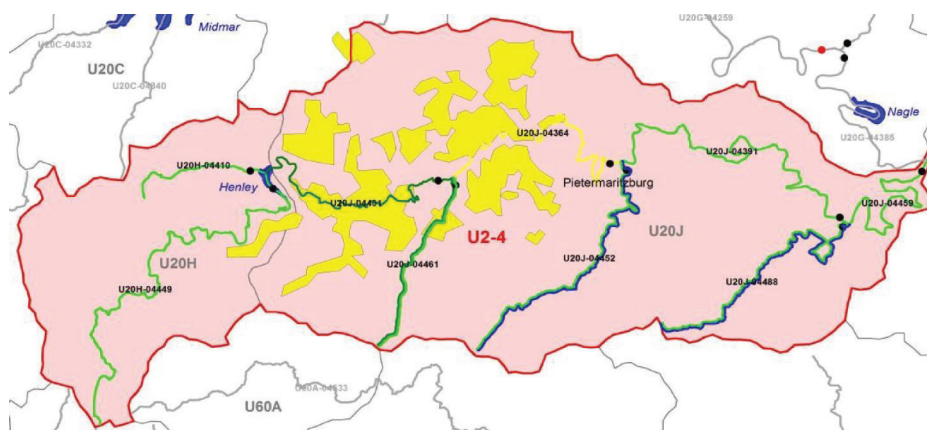
uMNGENI (U2): IUA U2-4**IUA U2-4: uMNSUNDUZE**

Table 1.56: IUA U2-4

RU	SQ	River	PES	REC	TEC
RU uMn8	U20H-04410	Nqabeni	C	C	C
	U20J-04452	Mpushini	B/C	B	B
	U20J-04461	Slang Spruit	C/D	C/D	C/D
	U20J-04488	Mshwati	B/C	B	B
MRU Duze A	U20H-04449	uMnsunduze	C	C	C
MRU Duze B	U20J-04364	uMnsunduze	D/E	D	D
	Mg_R_EWR4	uMnsunduze	D	D	D
MRU Duze C	U20J-04391	uMnsunduze	C	C	C
MRU Duze D	U20J-04459	uMnsunduze	C	B	C

Table 1.57: RU uMn8

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20H-04410										
C	5.5	5.5	0.93	16.8	1.39	25.1	0.007	0.014	0.011	0.023
U20J-04452										
B	6.8	5.4	1.43	21.2	2.08	30.7	0.017	0.020	0.013	0.030
U20J-04461										
C/D	4	3.8	0.58	14.5	0.91	22.8	0.003	0.013	0.004	0.016
U20J-04488										
B	7.3	5.9	1.58	21.8	2.27	31.3	0.017	0.026	0.016	0.034

* Flows generated for a B/C rule

Table 1.58: MRU DUZE A

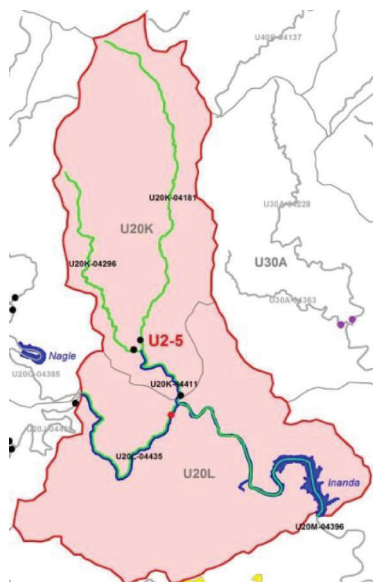
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20H-04449										
C	32	32	4.85	15.0	7.51	23.3	0.022	0.056	0.097	0.172

MRU DUZE B WITH Mg_R_EWR4 (U20J-0364) (including U20J-04401)**Table 1.59: MRU Duze C (U20J-04391)**

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20J-04391										
C	85.3	101.4	14.78	17.3	22.52	26.4	0.162	0.306	0.307	0.438

Table 1.60: MRU Duze D (U20J-04459)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20J-04459										
C	94.7	109.4	16.51	17.4	25.26	26.7	0.167	0.309	0.321	0.483

uMNGENI (U2): IUA U2-5**IUA U2-5: uMNGENI DOWNSTREAM OF THE uMNSUNDUZE CONFLUENCE TO INANDA DAM****Table 1.61: IUA U2-5**

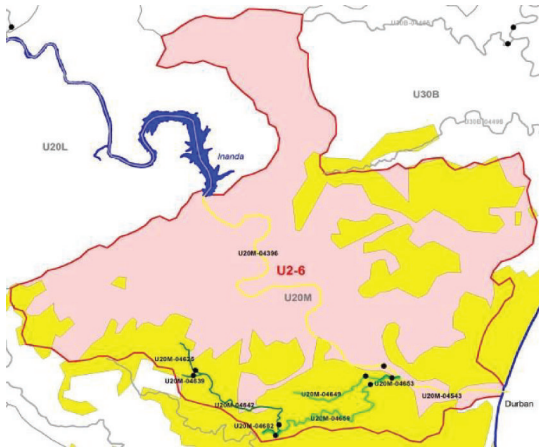
RU	SQ	River	PES	REC	TEC	PR
MRU uMn D	U20L-04435 Mg_I_EWR 5	uMngeni	D	D	D	3
	U20M-04396	uMngeni (upstream of Inanda dam)				
RU uMn9	U20K-04181	Mqeku	C	C	C	2
	U20K-04296	Tholeni	C	B/C	B/C	
	U20K-04411	Mqeku	B/C	B	B	

Table 1.62: MRU uMn D WITH Mg_I_EWR5 (U20L-04435) (INCLUDING U20M-04396)

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
Mg_I_EWR5	REC: D	583.7	245.3	123.47	21.20	141.81	24.3	0.856	2.017	1.655	2.477

Table 1.63: RU uMn9 (U20K-04181, 04296, 04411)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20K-04181										
C	19.5	17.7	4.03	20.7	5.76	29.5	0.022	0.069	0.016	0.083
U20K-04296										
B/C*	4.2	3.8	0.59	14.1	0.93	22.4	0.003	0.007	0.001	0.009
U20K-04411										
B*	26.2	23.8	5.29	20.1	7.78	29.6	0.034	0.11	0.029	0.133

uMNGENI (U2): IUA U2-6**IUA U2-6: DOWNSTREAM OF INANDA
DAM TO ESTUARY****Table 1.64: IUA U2-6**

RU	SQ	River	PES	REC	TEC
RU uMn10	U20M-04625		D	D	D
	U20M-04639	Palmiet	D	D	D
	U20M-04642	Palmiet	D	D	D
	U20M-04649	Mbongokazi	C	C	C
	U20M-04653	Palmiet	C/D	C/D	C/D
	U20M-04659	Palmiet	C	C	C
	U20M-04682		C/D	C/D	C/D

Table 1.65: RU uMn 10

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U20M-04642										
D	1.6	1.6	0.24	15.1	0.39	24.2	0.005	0.005	0.001	0.006
U20M-04649										
C	0.5	0.8	0.08	10.5	0.15	19.5	0.000	0.001	0.001	0.002
U20M-04653										
C/D	3.9	3.9	0.49	12.8	0.87	22.4	0.003	0.012	0.004	0.012
U20M-04659										
C	2.9	2.9	0.57	19.6	0.88	30.1	0.003	0.009	0.004	0.015

UMDLOTI (U3) and NORTHERN COAST (U3 and U5)

IUA 3-1 (RU U3.1): uMDLOTI

IUA U3-1 - uMDLOTI UPSTREAM OF HAZELMERE DAM

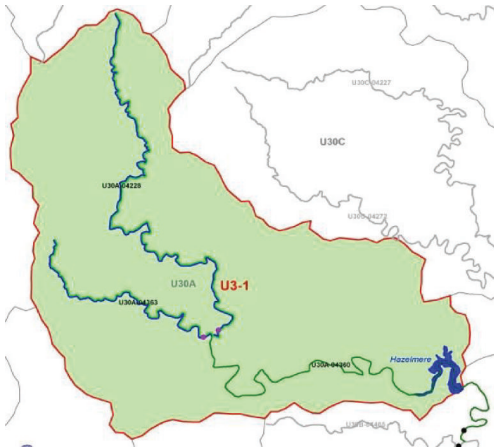
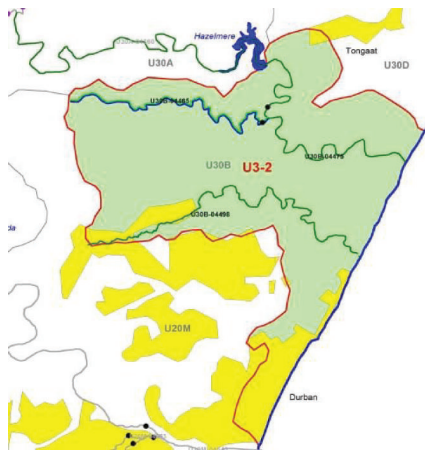


Table 1.66: IUA 3-1

RU	SQ	River	PES	REC	TEC	PR
RU U3.1	U30A-04228	uMdloti	B/C	B	B	3WQ
	U30A-04363	Mwangala	B/C	B	B	
	U30A-04360	uMdloti	D	D	D	

Table 1.67: U30A

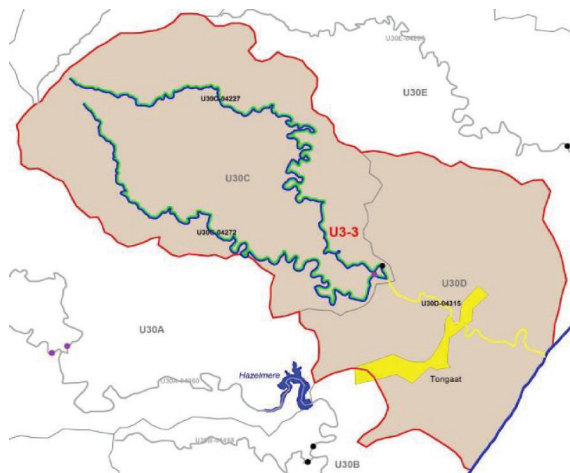
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U30A-04228										
B*	29.8	29	4.97	16.7	8.42	28.3	0.03	0.075	0.067	0.133
U30A-04363										
B	10.6	10.3	1.87	17.6	3.10	29.2	0.024	0.027	0.025	0.049
U30A-04360										
D	73.9	61.4	6.4	8.7	12.66	17.1	0.031	0.126	0.064	0.2

IUA 3-2 (RU U3.2):**IUA U3-2 - BLACK MHLASHINI****Table 1.68: IUA U3-2**

RU	SQ	River	PES	REC	TEC
RU U3.2	U30B-04465	Black Mhlashini	B/C	B/C	B/C

Table 1.69: U30B

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U30B-04465										
B/C	5.5	5.4	1.01	18.5	1.63	29.7	0.005	0.014	0.012	0.031

IUA 3-3 (RU U3.3): uTHONGATI**IUA U3-3 –UTHONGATI****Table 1.70: RU U3.3**

RU	SQ	River	PES	REC	TEC	PR
RU U3.3	U30C-04227	uThongathi	B/C	B/C	B/C	2
	U30C-04272	Mona	B/C	B	B/C	

Table 1.71: U30C

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep		Feb	
							90%	60%	90%	60%
U30C-04227										
B/C	23.8	23.3	2.72	11.4	5.36	22.6	0.008	0.027	0.013	0.05
U30C-04272										
B	17.1	16.8	1.95	11.4	3.88	22.6	0.009	0.017	0.012	0.041

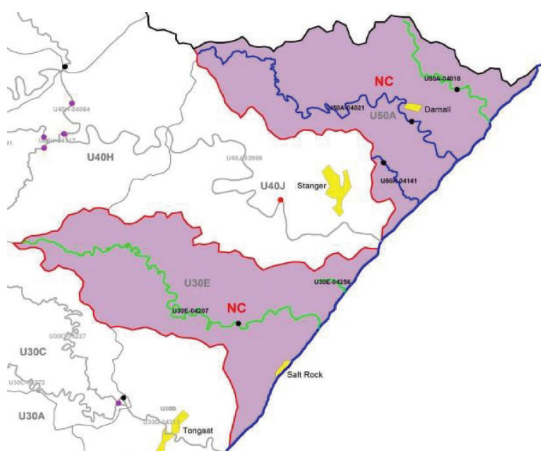
IU NCC**IUA NCC - NORTHERN COASTAL CLUSTER**

Table 1.72: RU NC

RU	SQ	River	PES	REC	TEC
RU NC.1	U30E-04207	Mhlali	C	C	C
RU NC.2	U50A-04018	Zinkwazi	B/C	B/C	B/C
	U50A-04021	Nonoti	B/C	B/C	B/C
	U50A-04141	Mdlotane	B/C	B/C	B/C

Table 1.73: U30E

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sept(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U30E-04207										
C	33.2	32.0	4.58	13.8	8.52	25.6	0.01	0.028	0.027	0.152
U50A-04018										
B/C	11	10.7	2.62	23.8	3.95	35.9	0.015	0.035	0.022	0.063
U50A-04021										
B/C	30.5	26.0	3.66	12	7.31	23.9	0.018	0.033	0.028	0.083

CONTINUES ON PAGE 130 - PART 2



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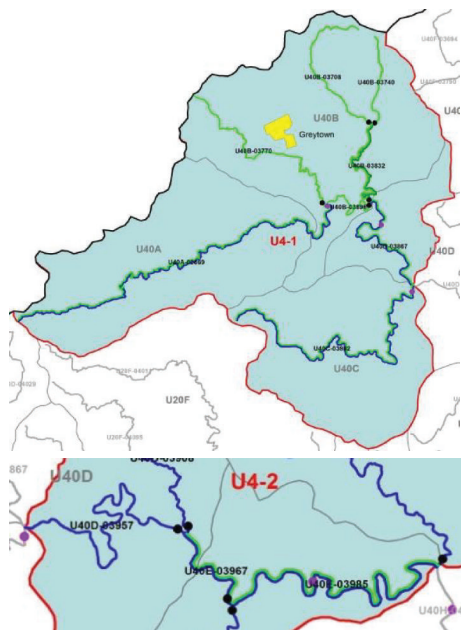
PART 2 OF 3

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MVOTI (U4): IUA U4-1 AND U4-2 (MVOTI RIVER SECTION)**IUA U4-1 and U4-2 (MVOTI ONLY)****Table 1.74: IUA U4-1 and U4-2**

RU	SQ	River	PES	REC	TEC
MRU Heyns A	U40B-03770 Mv_I_EWR1	Heinespruit	C	C	C
MRU Mvoti A	U40A-03869	Mvoti	B/C	B	B
RU Mv 1	U40B-03708	Intinda	C	C	C
	U40B-03740	Mvozana	C	C	C
	U40B-03832	Mvozana	C/D	C/D	C/D
RU MV 2	U40C-03982	Khamanzi	B/C	B	B
MRU Mvoti B	U40B-03896	Mvoti	Mv_I_EWR2		
	U40D-03867	Mvoti			
	U40D-03957	Mvoti			
	U40E-03967	Mvoti			
	U40E-03985	Mvoti			

Table 1.75: MRU HEYNS A WITH MV_I_EWR1

EWR	TEC (REC)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
U40B-03770 Mv_I_EWR1	C	17.36	7.08	3.164	18.2	4.847	27.9	0.030	0.037	0.067	0.093

Table 1.76: MRU MVOTI A

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U40A-03869										
B	52.1	26.6	10.06	19.3	13.75	26.4	0.054	0.083	0.179	0.727

Table 1.77: RU Mv1

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U40B-03708										
C	8.2	2.3	0.54	6.6	1.24	15.2	0.003	0.003	0.014	0.018
U40B-03740										
C	4.7	1.2	0.27	5.8	0.68	14.5	0.003	0.003	0.005	0.007
U40B-03832										
C/D	22.4	6.1	1.74	7.8	2.62	11.7	0.004	0.008	0.037	0.095

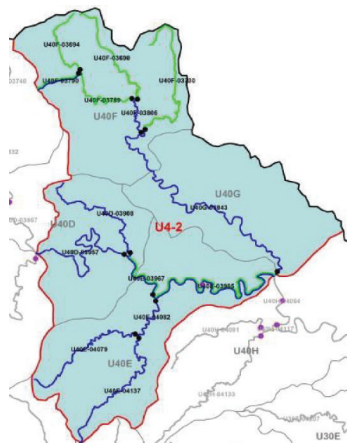
Table 1.78: RU Mv2

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep		Feb	
							90%	60%	90%	60%
U40C-03982										
B	32.0	15.7	5.02	15.7	7.59	23.7	0.029	0.068	0.079	0.147

Table 1.79: MRU Mvoti B (U40B-03896, U40D-03867, 03957, U40E-03967, 03985)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep		Feb	
							90%	60%	90%	60%
U40B-039896										
C	70.93	34.75	n/a	n/a	17.86	25	0.081	0.031	0.013	0.007
U40D-03867										
B	96.60	41.79	n/a	n/a	24.36	25	0.110	0.042	0.019	0.010
U40D-03957										
B	146.04	72.67	n/a	n/a	36.53	25	0.169	0.061	0.029	0.015
U40E-03967										
B/C	161.62	87.66	n/a	n/a	40.25	24.9	0.189	0.064	0.034	0.017
U40E-03985										
B	199.90	119.39	n/a	n/a	49.53	24.8	0.230	0.072	0.043	0.020

All nodes extrapolated from Mv_I_EWR2 (C EcoStatus). Note that rather than incorporating these nodes with Mv_I_EWR2, they have been kept separate as they are situated upstream of the proposed dam and under Sc 42 they cannot be linked.

MVOTI (U4): IUA U4-2 (MVOTI RIVER TRIBUTARIES)**IUA U4-2 (TRIBUTARIES ONLY): MVOTI
MIDDLE REACHES****Table 1.80: IUA U4-2**

RU	SQ	River	PES	REC	TEC
RU MV3	U40D-03908	Mtize	B	B	B
RU MV 4	U40E-04079	Faye	B	B	B
	U40E-04082	Sikoto	B	B	B
	U40E-04137	Sikoto	B	B	B
RU Mv 5	U40F-03690	Potspruit	C	C	C
	U40F-03694	Hlimbitwa	C	C	C
	U40F-03730	Cubhu	C	C	C
	U40F-03769	Hlimbitwa	C	C	C
	U40F-03790	Nseleni	B/C	B/C	B/C
	U40F-03806	Hlimbitwa	B	B	B
RU Mv 6	U40G-03843	Hlimbitwa	B	B	B

Table1. 81: RU Mv3 (U40D-03908)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U40D-03908										
B	7.6	7.3	1.57	20.5	2.46	32.2	0.012	0.021	0.017	0.040

Table 1.82: RU Mv4

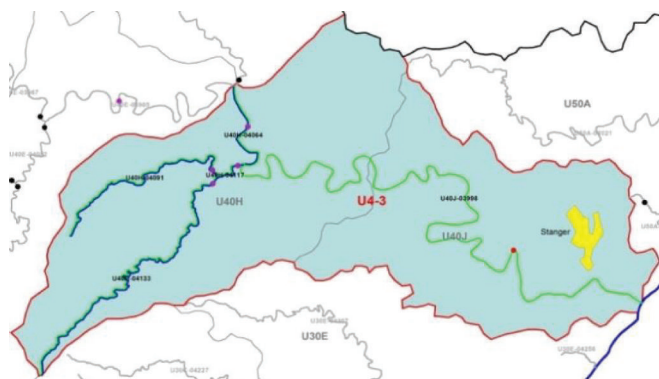
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U40E-04079										
B	13.4	10.7	2.25	16.9	3.81	28.5	0.014	0.020	0.039	0.077
U40E-04082										
B	32.2	25.9	5.84	18.2	9.57	29.8	0.019	0.041	0.093	0.218
U40E-04137										
B	15.4	12.4	2.89	18.8	4.66	30.3	0.008	0.017	0.042	0.098

Table 1.83: RU Mv5

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U40F-03690										
C	4.7	1.5	0.85	18.3	1.04	22.3	0.004	0.008	0.008	0.020
U40F-03694										
C	5.1	1.7	0.75	14.5	0.99	19.2	0.006	0.008	0.012	0.021
U40F-03730										
C	4.9	1.6	0.70	14.3	0.95	19.5	0.004	0.008	0.007	0.018
U40F-03769										
C	11.0	3.9	1.82	16.6	2.41	21.9	0.015	0.023	0.02	0.057
U40F-03790										
B/C	1.3	0.7	0.21	16.8	0.33	25.7	0.001	0.001	0.002	0.004
U40F-03806										
B	17.9	6.6	3.71	20.7	4.44	24.8	0.023	0.039	0.052	0.135

Table 1.84: RU Mv6 (U40G-03843)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U40G-03843										
B	64.6	51.3	13.3	20.6	20.34	31.5	0.118	0.196	0.214	0.414

MVOTI (U4): IUA U4-3**IUA U4-3 - MVOTI LOWER REACHES****Table 1.85: IUA U4-3**

RU	SQ	River	PES	REC	TEC
MRU Mvoti C	U40H-04064 Mv_I_EWR2	Mvoti	C	C	C
MRU Mvoti C MRU Mvoti D	U40J-03998	Mvoti	Mvoti_I_EWR2		
RU MV 7	U40H-04091	Pambela	B/C	B	B
	U40H-04117	Nsuze	B/C	B	B
	U40H-04133	Nsuze	B/C	B	B

Table 1.86: MRU MVOTI C WITH MV_I_EWR2 (U40H-04064)

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
								90%	60%	90%	60%
U40H-04064 Mv_I_EWR2	C	273.96	168.84	39.525	14.4	58.056	21.2	0.174	0.402	0.622	1.336
U40H-04064 Mv_I_EWR2	C (Sc 42)	273.96	156.1	63.3	24.1	156.1	57	0.724	0.869	1.169	1.189

Table 1.87: MRU MVOTI C AND D (U40J-03998)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U40H-04091										
B	13.2	13.2	2.05	15.6	3.43	26	0.012	0.021	0.017	0.04
U40H-04117										
B	29.8	29.8	5.0	16.9	8.22	27.6	0.014	0.020	0.039	0.077
U40H-04133										
B	15.7	15.7	2.66	17	4.34	27.6	0.019	0.041	0.093	0.218

uMLAZI (U6)**IUA U6-1 UPPER uMLAZI****Table 1.88: IUA U6-1**

RU	SQ	River	PES	REC	TEC
RU U6.1	U60A-04533	uMlazi	C	C	C
	U60B-04614	Mkuzane	C/D	C/D	C/D
	U60C-04555	uMlazi	C/D	C/D	C/D
RU U6.2	U60C-04556	Sterkspruit	D	D	D
RU U6.3	U60C-04613	Wekeweke	C	C	C

Table 1.89: RU U6.1 (U60A-04533, 04614, 04555)

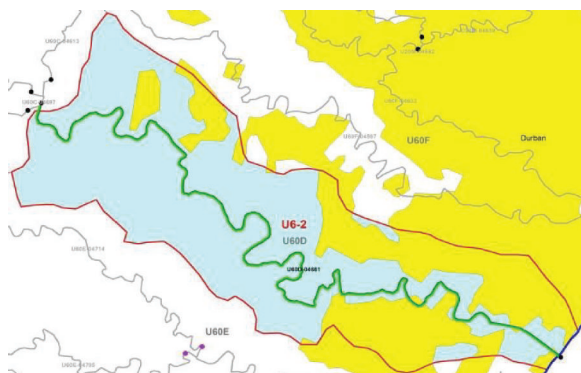
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U60A-04533										
C	33.2	19.4	5.44	16.4	7.95	23.9	0.015	0.023	0.033	0.191
U60B-04614										
C/D	8.5	3.1	1.54	18.1	1.86	21.9	0.012	0.019	0.02	0.039
U60C-04555										
C/D	76.1	38.8	12.29	16.2	17.32	22.8	0.019	0.019	0.02	0.303

Table 1.90: RU U6.2 (U60C-04556)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U60C-04556										
D	9.3	8.7	1.50	16.1	2.25	24.2	0.005	0.015	0.007	0.023

Table 1.91: RU U6.3 (U60C-04613)

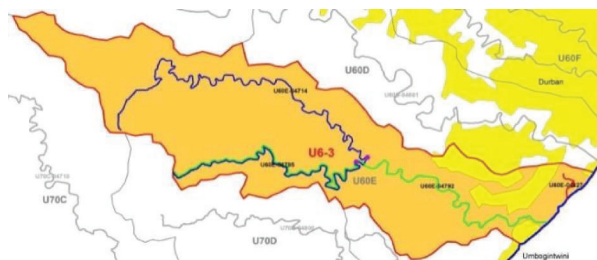
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U60C-04613										
C	1.8	1.1	0.2	11.1	0.38	21.1	0.002	0.002	0.002	0.003

IUA U6-2**IUA U6-2 LOWER uMLAZI****Table 1.92: IUA U6**

RU	SQ	River	PES	REC	TEC
RU U6.4	U60D-04661	uMlazi	C/D	C/D	C/D

Table 1.93: RU U6.4 (U60D-04661)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U60D-04661										
C/D	101.6	65.2	17.19	16.9	25.13	24.7	0.097	0.293	0.137	0.461

IUA U6-3**IUA U6-3 MBOKODWENI****Table 1.94: IUA U6-3**

RU	SQ	River	PES	REC	TEC
RU U6.5	U60E-04714	Mbokodweni	B	B	B
	U60E-04795	Bivane	B/C	B	B
RU U6.6	U60E-04792	Mbokodweni	C	C	C

Table 1.95: U60E-04714/U60E-04795

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U60E-04714										
B	16.8	15.7	2.97	17.6	4.81	28.6	0.02	0.046	0.041	0.082
U60E-04795										
B	6.6	6.1	1.17	17.8	1.89	28.8	0.009	0.017	0.014	0.038

Table 1.96: Ecospecs for RU U6.6 (U60E-04792)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U60E-04792										
C	26.1	24.3	4.4	16.8	7.04	26.9	0.015	0.059	0.028	0.102

LOVU (U7): IUA U7-1

IUA U7-1 LOVU RIVER



Table 1.97: IUA U7-1

RU	SQ	River	PES	REC	TEC
MRU Lovu A	U70A-04609	Lovu	B/C	B/C	B/C
	U70A-04685	Lovu	C	C	C
RU L1	U70A-04599	Serpentine	C	C	C
	U70A-04618		C	C	C
MRU Lovu B	U70B-04655	Lovu	C/D	C/D	C/D
RU L2	U70C-04710	Mgwahumbe	C	C	C
	U70C-04724		C	C	C
	U70C-04732		C	C	C
MRU Lovu D	U70C-04859 Lo_R_EWR1	Lovu	B/C	B/C	B/C
RU L3	U70D-04800	Nungwane	B/C	B/C	B/C

Table 1.98: MRU LOVU A (U70A-04609, 04685)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U70A-04609										
B/C	17.81	10.51	n/a	n/a	6.36	36	0.027	0.009	0.005	0.002
U70A-04685										
C	1.66	1.01	n/a	n/a	0.59	36	0.003	0.001	0.000	0.000

Table 1.99: RU L1 (U70A-04599, 04618)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U70A-04599										
C	10.4	6.0	1.68	16.1	2.57	24.6	0.012	0.023	0.024	0.048
U70A-04618										
C	3.5	2.2	0.59	17.1	0.89	25.8	0.002	0.009	0.009	0.014

Table 1.100: MRU LOVU B (U70B-04655)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U70B-04655										
C/D	61.24	37.21	n/a	n/a	21.11	34.5	0.094	0.028	0.021	0.009

Table 1.101: L2 (U70C-04710, 04724, 04732)

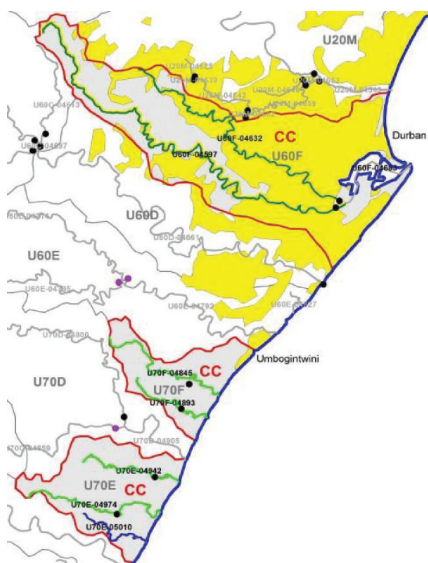
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U70C-04710										
C	22.2	20.2	5.28	23.8	7.35	33.1	0.04	0.106	0.06	0.115
U70C-04724										
C	0.1	0.1	Catchment too small for Desktop modelling.							
U70C-04732										
C	0.0	0.0	Catchment too small for Desktop modelling.							

Table 1.102: U70C-EWR 2

EWR	TEC	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m ³ /s)		Feb(m ³ /s)	
								90%	60%	90%	60%
U70C-04859 Lo_R_EWR2	B/C	87.76	73.42	20.044	22.8	33.231	37.9	0.142	0.189	0.359	0.533

Table 1.103: RU L3 (U70D-04800)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U70D-04800										
B/C	15.2	9.3	3.28	21.6	4.34	28.6	0.021	0.048	0.027	0.07

CENTRAL CLUSTER (CC)**IUA CC (COASTAL CLUSTER)****Table1. 104: IUA CC**

RU	SQ	River	PES	REC	TEC
RU CC	U60F-04597	Mhlatuzana	D/E	D	D/E
	U60F-04632	Umbilo	D	D	D
RU CC 1	U70E-04942	Umsimbazi	C	C	C
	U70E-04974	uMgababa	C	C	C
RU CC 2	U70F-04845	aManzimtoti	C	C	C
	U70F-04893	Little aManzimtoti River	C	C	C

Table 1.105: RU U6 CC (U60F-04597, 04632)

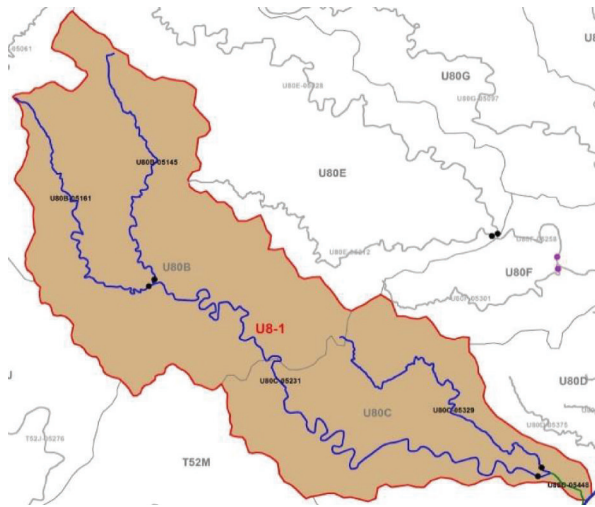
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U60F-04597										
D/E	Water quality issues only									
U70F-04632										
D	12.7	19.4	1.82	14.4	2.9	22.9	0.006	0.014	0.007	0.03

Table 1.106: RU U7 CC.1 (U70E-04942, 04974)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U70E-04942										
C	7.9	7.7	1.38	17.5	2.10	26.7	0.009	0.018	0.016	0.033
U70E-04974										
C	5.0	4.9	1.03	20.7	1.49	29.9	0.004	0.015	0.011	0.025

Table 1.107: RU U7 CC.2 (U70F-04845, 04893)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U70F-04845										
C	4.7	4.6	0.69	14.5	1.2	25.3	0.003	0.01	0.006	0.018
U70F-04893										
C	1.4	2.4	0.16	11.3	0.29	20.5	0.001	0.001	0.001	0.003

IUA U8-1**IUA 8-1 MZUMBE****Table 1.108: IUA 8-1**

RU	SQ	River	PES	REC	TEC
RU U8 1	U80B-05145	Mzumbe	B	B	B
	U80B-05161	Mhlabatshane	B	B	B
	U80C-05231	Mzumbe	B	B	B
	U80C-05329	Kwa-Malukaka	B	B	B

Table 1.109: RU 8.1 (U80B-05145, 05161, U80C-05231, 05329)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U80B-05145										
B	7.9	6.4	1.86	23.6	2.74	34.9	0.013	0.022	0.024	0.059
U80B-05161										
B	8.8	8.1	2.12	24.1	3.11	35.4	0.02	0.031	0.021	0.054
U80C-05231										
B	47.9	44.7	10.70	22.4	16.59	34.7	0.071	0.21	0.159	0.329
U80C-05329										
B	9.4	9.1	2.19	23.3	3.33	35.4	0.014	0.02	0.021	0.051

U8-2**IUA 8-2 MTWALUME****Table 1.110: IUA 8-2**

RU	SQ	River	PES	REC	TEC	PR
RU U8 2	U80E-05028	Mtswalume	C	B	C	2
RU U8 3	U80E-05212	Quha	B	B	B	2
	U80F-05258	Mtswalume	B/C	B	B	
	U80F-05301	uMngeni	B/C	B	B	

Table 1.111: U80E

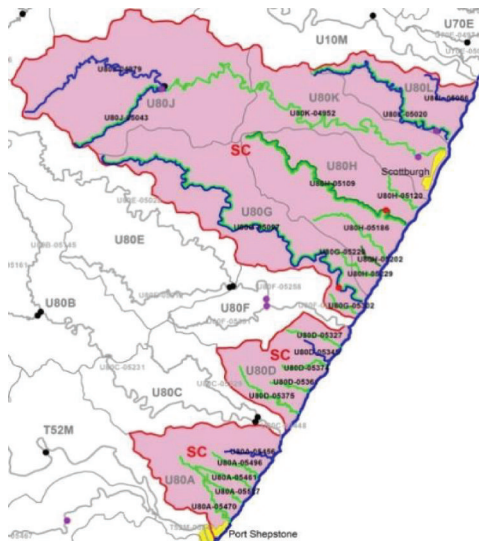
REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb	
							90%	60%	90%	60%
U80E-05028										
C	27.8	18.1	3.91	14.1	6.08	21.9	0.024	0.058	0.058	0.108

Table 1.112: U8.3 (U80E-05212, U80F-05258, 05301)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U80E-05212										
B	11.2	10.6	3.01	26.8	4.3	38.4	0.014	0.034	0.022	0.054
U80F-05258										
B*	42.6	32.2	5.88	13.8	10.27	24.1	0.082	0..165	0.132	0.182
U80F-05301										
B	7.2	7.1	1.30	18	2.11	29.1	0.011	0.017	0.012	0.029

IUA U8 SC

IUA SC SOUTHERN COASTAL

**Table 1.113: IUA U8**

RU	SQ	River	PES	REC	TEC	PR
RU SC 3	U80G-05097	Fafa	B/C	B	B	2
RU SC 4	U80H-05109	Mzinto	C/D	C	C	2
RU SC 5	U80J-04979	Mpambanyoni	B	B	B	2
	U80J-05043	Ndonyane	B/C	B	B/C	
RU SC 6	U80K-04952	Mpambanyoni	C	B	C	2
RU SC 7	U80L-05020	aMahlongwa	B/C	B	B/C	2

Table 1.114: RU SC 3

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U80G-05097										
B	46.4	38.6	8.76	18.9	14.02	30.2	0.038	0.113	0.134	0.216

Table 1.115: RU SC 4

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U80H-05109										
C/D	22.9	19.9	3.17	13.9	5.75	25.1	0.01	0.031	0.019	0.05

Table 1.116: RU SC 5 (U80J-0497, 05043)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U80J-0497										
B	12.6	10.2	3.09	24.5	4.55	36.1	0.015	0.034	0.023	0.057
U80J-05043										
B/C	6.5	5.7	1.29	19.7	2.04	31.3	0.012	0.017	0.011	0.022

Table 1.117: SC 6 (U80K-04952)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb	
							90%	60%	90%	60%
U80K-04952										
C	58.0	53.1	5.79	10	11.72	20.2	0.084	0.164	0.148	0.178

Table 1.118: RU SC 7 (U80L-05020)

REC (EWR)	nMAR (MCM)	pMAR (MCM)	Low EWR flows (MCM)	Low EWR flows (%nMAR)	Total EWR flows (MCM)	Total (%nMAR)	Sep(m³/s)		Feb(m³/s)	
							90%	60%	90%	60%
U80L-05020										
B/C	10.5	10.1	2.55	24.3	3.73	35.6	0.014	0.04	0.019	0.058

2. SURFACE WATER QUALITY COMPONENT FOR RIVERS AT EWR SITES

MTAMVUNA (T4): RIVER CATCHMENT

Table 2.1: EWR Mt_R_EWR1: Water quality EcoSpecs and TPCs (PES and TEC: A/B)

River: Mtamvuna		PES: A/B Category
Monitoring site: T4H001Q01		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 30 mS/m.	The 95 th percentile of the data must be 24 – 30 mS/m.
pH	The 5 th percentile of the data must be 5.9 – 6.5, and the 95 th percentile 7.6 – 8.0.	The 5 th percentile of the data must be < 6.1 and > 6.3, and the 95 th percentile must be < 7.8 and > 8.2
Temperature ^(b)	Small deviation from the natural temperature range.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.5 mg/L.	The 5 th percentile of the data must be 7.8 – 7.5 mg/L. Initiate baseline monitoring for this variable.

River: Mtamvuna		PES: A/B Category
Monitoring site: T4H001Q01		
Water quality metrics	EcoSpecs	TPC
Turbidity ^(b)	Moderate changes to the catchment land-use resulting in <u>temporary</u> unnaturally high sediment loads and high turbidities.	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 0.7 mg/L.	The 50 th percentile of the data must be 0.55 – 0.7 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.020 mg/L.	The 50 th percentile of the data must be 0.016 – 0.020 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be <15 µg/L.	The 50 th percentile of the data must be 12 – 15 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 21 mg/m ² .	The 50 th percentile of the data must be 17 – 21 mg/m ² .
Toxics ^(b)		
Toxics	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the Target Water Quality Range (TWQR) as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

(a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.

(b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement.

UMZIMKULU (T4): RIVER CATCHMENT

Source: Water quality assessment was conducted as part of the Mzimkhulu River Catchment Water Resources Study: Riverine Ecological Requirements study (DWA, 2011c). EcoSpecs and TPCs are taken from DWA (2011c).

Model: PAI model (DWAF, 2008b).

Users: Irrigation; erosion.

Water quality issue: Nutrients, salts, turbidity.

Table 2.2: MZEWR2i: Water quality EcoSpecs and TPCs (PES and TEC: A)

River: Umzimkulu		PES: A Category
Monitoring site: T5H004Q01		
Water quality metrics	EcoSpecs	TPC
Physical variables		
Electrical Conductivity	30 mS/m at 95 th percentile.	95 th percentile should not exceed 24 mS/m.
pH	pH 6.5 – 8.8: 5 th and 95 th percentiles must not fall outside of this range.	5 th percentile should not be less than 6.7 and the 95 th percentile should not be greater than 8.6.
Turbidity	Turbidity should not display more than a small change from natural conditions (i.e. should not exceed rating category 1 of default DWS categories).	As no data is currently available, initiate baseline monitoring of this parameter to establish TPC.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	0.25 mg/L at 50 th percentile.	50 th percentile value should not exceed 0.2 mg/L

River: Umzimkulu		PES: A Category
Monitoring site: T5H004Q01		
Water quality metrics	EcoSpecs	TPC
PO ₄ -P	0.027 mg/L at 50th percentile.	50 th percentile value should not exceed 0.022 mg/ L

Note – Due to insufficient data, EcoSpecs and TPCs could not be determined for toxics and response variables. Concerns over the utilisation of DWS data with TEACHA software have also resulted in Electrical Conductivity being used as a surrogate for inorganic salts. Salts are however not anticipated to be a problem in this catchment. No Temperature data is available, though no significant thermal impacts are currently noted in the catchment.

Table 2.3: MzEWR17i: Water quality EcoSpecs and TPCs (PES and TEC: A/B - B)

River: Umzimkulu		PES: A/B – B Category
Monitoring site: T5H0124Q01		
Water quality metrics	EcoSpecs	TPC
Physical variables		
Electrical Conductivity	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural – i.e. 55 mS/m at 95 th percentile	TPC calculated based on default tables – 44 mS/m. Initiate baseline monitoring for this variable.
pH	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural, i.e. pH 5.9 at 5 th percentile and 8.8 at 95 th percentile.	TPC calculated based on default tables – 6.25 at 5 th percentile and 8.36 at 95 th percentile. Initiate baseline monitoring for this variable.
Turbidity	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural (as assessed in the default tables).	No quantitative classes exist for this variable – TPC is meaningless to assess. Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural – i.e. 0.7 mg/L at 50 th percentile	TPC calculated based on default tables – 0.56 mg/L. Initiate baseline monitoring for this variable.
PO ₄ -P	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a moderate change from natural – i.e. 0.015 mg/L at 50 th percentile	TPC calculated based on default tables – 0.012 mg/L. Initiate baseline monitoring for this variable.

Note – Due to an absence of data for this section of the river, baseline conditions at this site could not be assessed and thus EcoSpecs and TPCs could not be determined. Values have been calculated based on the default rating table according to the overall assessed PES rating at this site.

Table 2.4: MRU MzC (MzEWR6i): Water quality EcoSpecs and TPCs (PES and TEC: A/B)

River: Umzimkulu		PES: A/B Category
Monitoring site: none		
Water quality metrics	EcoSpecs	TPC
Physical variables		
Electrical Conductivity	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural – i.e. 55 mS/m at 95 th percentile	TPC calculated based on default tables – 44 mS/m. Initiate baseline monitoring for this variable.
pH	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural, i.e. pH 5.9 at 5 th percentile and 8.8 at 95 th percentile.	TPC calculated based on default tables – 6.25 at 5 th percentile and 8.36 at 95 th percentile. Initiate baseline monitoring for this variable.

River: Umzimkulu		PES: A/B Category
Monitoring site: none		
Water quality metrics	EcoSpecs	TPC
Turbidity	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural (as assessed in the default tables).	No quantitative classes exist for this variable – TPC is meaningless to assess. Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a small to moderate change from natural – i.e. 0.7 mg/L at 50 th percentile	TPC calculated based on default tables – 0.56 mg/L. Initiate baseline monitoring for this variable.
PO ₄ -P	No baseline data exists for this section of the river. Values should however not exceeds the default threshold for a moderate change from natural – i.e. 0.015 mg/L at 50 th percentile	TPC calculated based on default tables – 0.012 mg/L. Initiate baseline monitoring for this variable.

Note – Due to an absence of data for this section of the river, baseline conditions at this site could not be assessed and thus EcoSpecs and TPCs could not be determined. Values have been calculated based on the default rating table according to the overall assessed PES rating at this site.

uMKHOMAZI (U1): RIVER CATCHMENT

Source: Water quality assessment was conducted as part of the 2012-2015 Mvoti to Umzimkulu WMA Comprehensive Reserve study (DWS, 2014b). Source data includes a GE layer of land use information from Umgeni Water. **Model:** PAI model (DWAf, 2008b). **Users:** Some agriculture; extensive erosion. **Water quality issue:** Turbidity.

Table 2.5: MRU uMkhomazi B.2: Water quality EcoSpecs and TPCs (PES and TEC: A/B)

River: uMkhomazi		PES: A/B Category
Monitoring site: RMK002 or U1H005Q01		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 30 mS/m.	The 95 th percentile of the data must be 24 – 30 mS/m.
pH	The 5 th percentile of the data must be 5.9 – 6.5, and the 95 th percentile 8.0 – 8.8.	The 5 th percentile of the data must be < 6.1 and > 6.3, and the 95 th percentile must be < 8.2 and > 8.6.
Temperature ^(b)	Natural temperature range.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.5 mg/L.	The 5 th percentile of the data must be 7.8 – 7.5 mg/L. Initiate baseline monitoring for this variable.

River: uMkhomazi		PES: A/B Category
Monitoring site: RMK002 or U1H005Q01		
Water quality metrics	EcoSpecs	TPC
Turbidity ^(b)	Changes in turbidity are related to minor man-made modifications. Some silting of habitats is expected.	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 0.25 mg/L.	The 50 th percentile of the data must be 0.2 – 0.25 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.015 mg/L.	The 50 th percentile of the data must be 0.012 – 0.015 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be < 15 µg/L.	The 50 th percentile of the data must be 12 – 15 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 12 mg/m ² .	The 50 th percentile of the data must be 10 – 12 mg/m ² .
Toxics		
Ammonia (NH ₃ -N)	The 95 th percentile of the data must be ≤ 0.044 mg/L.	The 50 th percentile of the data must be 0.035 – 0.044 mg/L.
Mercury	The 95 th percentile of the data must be ≤ 0.001 mg/L.	The 95 th percentile of the data must be 0.000 8 – 0.001 mg/L.
Other toxics	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the TWQR as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

(a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.

(b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement.

Table 2.6: MRU uMkhomazi C: Water quality EcoSpecs and TPCs (PES and TEC: A/B)

River: uMkhomazi		PES: A/B Category
Monitoring site: RMK004		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 30 mS/m.	The 95 th percentile of the data must be 24 – 30 mS/m.
pH	The 5 th and 95 th percentiles of the data must range from 6.5 to 8.0.	The 5 th and 95 th percentiles of the data must be < 6.7 and > 7.8.
Temperature ^(b)	Natural temperature range.	Initiate baseline monitoring for this variable.

River: uMkhomazi		PES: A/B Category
Monitoring site: RMK004		
Water quality metrics	EcoSpecs	TPC
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.5 mg/L.	The 5 th percentile of the data must be 7.8 – 7.5 mg/L. Initiate baseline monitoring for this variable.
Turbidity ^(b)	Changes in turbidity are related to minor man-made modifications. Some silting of habitats are expected.	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 0.25 mg/L.	The 50 th percentile of the data must be 0.2 – 0.25 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.015 mg/L.	The 50 th percentile of the data must be 0.012 – 0.015 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be < 15 µg/L.	The 50 th percentile of the data must be 12 – 15 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 12 mg/m ² .	The 50 th percentile of the data must be 10 – 12 mg/m ² .
Toxics		
Ammonia (NH ₃ -N)	The 95 th percentile of the data must be ≤ 0.073 mg/L.	The 50 th percentile of the data must be 0.058 – 0.073 mg/L.
Lead (moderate / hard water)	The 95 th percentile of the data must be ≤ 0.005 mg/L.	The 95 th percentile of the data must be 0.004 – 0.005 mg/L.
Other toxics	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the TWQR as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

(a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.

(b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement.

Table 2.7: MRU uMkhomazi D: Mk_I_EWR2: Water quality EcoSpecs and TPCs (PES and TEC: A/B)

River: uMkhomazi		PES: A/B Category
Monitoring site: U1H009Q01 or U1H006Q01		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		

River: uMkhomazi		PES: A/B Category
Monitoring site: U1H009Q01 or U1H006Q01		
Water quality metrics	EcoSpecs	TPC
Electrical Conductivity	The 95 th percentile of the data must be ≤ 55 mS/m.	The 95 th percentile of the data must be 44 – 55 mS/m.
pH	The 5 th percentile of the data must be 5.9 – 6.5, and the 95 th percentile 7.6 – 8.8.	The 5 th percentile of the data must be < 6.1 and > 6.3, and the 95 th percentile must be <7.8 and > 8.6
Temperature ^(b)	Natural temperature range.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.5 mg/L.	The 5 th percentile of the data must be 7.8 – 7.5 mg/L. Initiate baseline monitoring for this variable.
Turbidity ^(b)	Changes in turbidity are related to minor man-made modifications. Some silting of habitats are expected.	Initiate baseline monitoring for this variable.
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 0.25 mg/L.	The 50 th percentile of the data must be 0.2 – 0.25 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.015 mg/L.	The 50 th percentile of the data must be 0.012 – 0.015 mg/L.
Response variables		
Chl- <i>a</i> phytoplankton ^(b)	The 50 th percentile of the data must be <15 µg/L.	The 50 th percentile of the data must be 12 – 15 µg/L.
Chl- <i>a</i> periphyton ^(b)	The 50 th percentile of the data must be ≤ 12 mg/m ² .	The 50 th percentile of the data must be 10 – 12 mg/m ² .
Toxics		
Other toxics	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the TWQR as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

(a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.

(b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement.

uMGENI (U2): RIVER CATCHMENT

Source: Water quality assessment was conducted as part of the 2012-2015Mvoti to Umzimkulu WMA Comprehensive Reserve study (DWS, 2014b). Source data includes a GE layer of land use information from Umgeni Water.

Model: PAI model (DWAf, 2008b).

Users: Agriculture; chicken farms; dairy; piggeries; hiking, camping, climbing and fishing in upper reaches.

Water quality issue: Nutrients, faecal coliforms/*E. coli*.

Table 2.8: MRU uMnA: Mg_R_EWR1 Water quality EcoSpecs and TPCs (PES and TEC: A/B)

River: uMngeni		PES: A/B Category
Monitoring site: RMG001		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 30 mS/m.	The 95 th percentile of the data must be 24 – 30 mS/m.
pH	The 5 th percentile of the data must be 6.5 – 8.0, and the 95 th percentile 8.0 – 8.8.	The 5 th percentile of the data must be < 6.3 and > 7.8, and the 95 th percentile must be < 8.2 and > 8.6.
Temperature ^(b)	Small deviation from the natural temperature range.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.0 mg/L.	The 5 th percentile of the data must be 7.2 – 7.0 mg/L. Initiate baseline monitoring for this variable.
Turbidity ^(b)	Vary by a small amount from the natural turbidity range; minor silting of instream habitats acceptable.	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 0.7 mg/L.	The 50 th percentile of the data must be 0.55 – 0.7 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.015 mg/L.	The 50 th percentile of the data must be 0.012 – 0.015 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be <10 µg/L.	The 50 th percentile of the data must be 8 – 10 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 12 mg/m ² .	The 50 th percentile of the data must be 10 – 12 mg/m ² .
Toxics		

River: uMngeni		PES: A/B Category
Monitoring site: RMG001		
Water quality metrics	EcoSpecs	TPC
Ammonia (NH ₃ -N)	The 95 th percentile of the data must be ≤ 0.1 mg/L.	The 95 th percentile of the data must be 0.08 – 0.1 mg/L.
Ammonia (NH ₃ -N)	The 95 th percentile of the data must be ≤ 0.1 mg/L.	The 95 th percentile of the data must be 0.08 – 0.1 mg/L.
Other toxics ^(b)	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the TWQR as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

- (a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.
- (b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement

Table 2.9: Mg_R_EWR3: Water quality EcoSpecs and TPCs (PES and TEC: B)

River: uMngeni		PES: B Category
Monitoring site: U2H006Q01		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 30 mS/m.	The 95 th percentile of the data must be 24 – 30 mS/m.
pH	The 5 th and 95 th percentiles of the data must be 6.5 – 8.0	The 5 th and 95 th percentile of the data must be < 6.7 and > 7.8
Temperature ^(b)	Small deviation from the natural temperature range.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.0 mg/L.	The 5 th percentile of the data must be 7.2 – 7.0 mg/L. Initiate baseline monitoring for this variable.
Turbidity ^(b)	Vary by a small amount from the natural turbidity range; minor silting of instream habitats acceptable	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 0.7 mg/L.	The 50 th percentile of the data must be 0.55 – 0.7 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.015 mg/L.	The 50 th percentile of the data must be 0.012 – 0.015 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be <10 µg/L.	The 50 th percentile of the data must be 8 – 10 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 21 mg/m ² .	The 50 th percentile of the data must be 17 – 21 mg/m ² .
Toxics		
Toxics ^(b)	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

(a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.

(b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement.

Table 2.10: Mg_I_EWR2: Water quality EcoSpecs and TPCs (C/D Category PES and TEC)

River: uMngeni		PES: C/D Category
Monitoring site: RMG008		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 30 mS/m.	The 95 th percentile of the data must be 24 – 30 mS/m.
pH	The 5 th percentile of the data must be 6.5 – 8.0, and the 95 th percentile 8.0 – 8.8	The 5 th percentile of the data must be < 6.3 and > 7.8, and the 95 th percentile must be < 8.2 and > 8.6
Temperature ^(b)	Small deviation from the natural temperature range.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.0 mg/L.	The 5 th percentile of the data must be 7.2 – 7.0 mg/L. Initiate baseline monitoring for this variable.
Turbidity ^(b)	Vary by a small amount from the natural turbidity range; minor silting of instream habitats acceptable	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 0.85 mg/L.	The 50 th percentile of the data must be 0.68 – 0.85 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.075 mg/L.	The 50 th percentile of the data must be 0.06 – 0.075 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be <20 µg/L.	The 50 th percentile of the data must be 16 – 20 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 52.5 mg/m ² .	The 50 th percentile of the data must be 42 – 52.5 mg/m ² .
Toxics		
Ammonia (NH ₃ -N)	The 95 th percentile of the data must be ≤ 0.1 mg/L.	The 95 th percentile of the data must be 0.08 – 0.1 mg/L.
Aluminium	The 95 th percentile of the data must be ≤ 0.02 mg/L (Chronic Effects Value (CEV) value for pH > 6.5).	The 95 th percentile of the data must be 0.016 – 0.020 mg/L.
Mercury	The 95 th percentile of the data must be ≤ 0.000 525 mg/L.	The 95 th percentile of the data must be 0.000 42 – 0.000 525 mg/L.
Other toxics ^(b)	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the TWQR as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

(a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.

Table 2.11: Mg_R_EWR4: Water quality EcoSpecs and TPCs (PES and TEC: E/F)

River: uMnsunduze		PES: E/F Category
Monitoring site: RMD019		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 55 mS/m.	The 95 th percentile of the data must be 44 – 55 mS/m.
pH	The 5 th percentile of the data must be 6.5 – 8.0, and the 95 th percentile 8.0 – 8.8	The 5 th percentile of the data must be < 6.3 and > 7.8, and the 95 th percentile must be < 8.2 and > 8.6
Temperature ^(b)	Minor to moderate changes in temperature experienced.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 5.0 mg/L.	The 5 th percentile of the data must be 5.2 – 5.0 mg/L. Initiate baseline monitoring for this variable.
Turbidity ^(b)	Increased turbidity levels experienced.	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 2.5 mg/L.	The 50 th percentile of the data must be 2.0 – 2.5 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.075 mg/L.	The 50 th percentile of the data must be 0.06 – 0.075 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be < 20 µg/L.	The 50 th percentile of the data must be 16 – 20 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 52.5 mg/m ² .	The 50 th percentile of the data must be 42 – 52.5 mg/m ² .
Toxics		
Ammonia (NH ₃ -N)	The 95 th percentile of the data must be ≤ 0.1 mg/L.	The 95 th percentile of the data must be 0.08 – 0.1 mg/L.
Aluminium	The 95 th percentile of the data must be ≤ 0.15 mg/L.	The 95 th percentile of the data must be 0.012 – 0.15 mg/L.
Copper ^(c)	The 95 th percentile of the data must be ≤ 0.004 6 mg/L.	The 95 th percentile of the data must be 0.0037 – 0.004 6 mg/L.
Cadmium ^(c)	The 95 th percentile of the data must be ≤ 0.000 95 mg/L.	The 95 th percentile of the data must be 0.00076 – 0.000 95 mg/L.
Lead ^(c)	The 95 th percentile of the data must be ≤ 0.005 mg/L.	The 95 th percentile of the data must be 0.004 – 0.005 mg/L.
Other toxics ^(b)	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the TWQR as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

- (a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.
 (b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement.
 (c) Moderate hardness (i.e. 60 – 119 mg/L CaCO₃) (DWAf, 2008).

Table 2.12: Mg_I_EWR5: Water quality EcoSpecs and TPCs (PES and TEC: C/D)

River: uMngeni		PES: C/D Category
Monitoring site: U2H055Q01		
Water quality metrics	EcoSpecs	TPC
Inorganic salts ^(a)		
MgSO ₄	The 95 th percentile of the data must be ≤ 16 mg/L.	The 95 th percentile of the data must be 13 – 16 mg/L.
Na ₂ SO ₄	The 95 th percentile of the data must be ≤ 20 mg/L.	The 95 th percentile of the data must be 16 – 20 mg/L.
MgCl ₂	The 95 th percentile of the data must be ≤ 15 mg/L.	The 95 th percentile of the data must be 12 – 15 mg/L.
CaCl ₂	The 95 th percentile of the data must be ≤ 21 mg/L.	The 95 th percentile of the data must be 17 – 21 mg/L.
NaCl	The 95 th percentile of the data must be ≤ 45 mg/L.	The 95 th percentile of the data must be 36 – 45 mg/L.
CaSO ₄	The 95 th percentile of the data must be ≤ 351 mg/L.	The 95 th percentile of the data must be 280 – 351 mg/L.
Physical variables		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 55 mS/m.	The 95 th percentile of the data must be 44 – 55 mS/m.
pH	The 5 th percentile of the data must be 6.5 – 8.0, and the 95 th percentile 8.0 – 8.8	The 5 th percentile of the data must be < 6.3 and > 7.8, and the 95 th percentile must be < 8.2 and > 8.6
Temperature ^(b)	A natural temperature range expected.	Initiate baseline monitoring for this variable.
Dissolved oxygen ^(b)	The 5 th percentile of the data must be ≥ 7.0 mg/L.	The 5 th percentile of the data must be 7.2 – 7.0 mg/L. Initiate baseline monitoring for this variable.
Turbidity ^(b)	A small change from present with minor silting of habitats and turbidity loads.	Initiate baseline monitoring for this variable.
Nutrients		
Total Inorganic Nitrogen (TIN-N)	The 50 th percentile of the data must be ≤ 4.0 mg/L.	The 50 th percentile of the data must be 3.2 – 4.0 mg/L.
PO ₄ -P	The 50 th percentile of the data must be ≤ 0.075 mg/L.	The 50 th percentile of the data must be 0.06 – 0.075 mg/L.
Response variables		
Chl-a phytoplankton ^(b)	The 50 th percentile of the data must be <15 µg/L.	The 50 th percentile of the data must be 12 – 15 µg/L.
Chl-a periphyton ^(b)	The 50 th percentile of the data must be ≤ 21 mg/m ² .	The 50 th percentile of the data must be 16.8 – 21 mg/m ² .
Toxics		
Ammonia (NH ₃ -N)	The 95 th percentile of the data must be ≤ 0.1 mg/L.	The 95 th percentile of the data must be 0.08 – 0.1 mg/L.
Other toxics ^(b)	The 95 th percentile of the data must be within the TWQR as stated in DWAF (1996c) or the A category boundary as stated in DWAF (2008b).	An impact is expected if the 95 th percentile of the data exceeds the Target Water Quality Range (TWQR) as stated in DWAF (1996c) or the upper limit of the A category boundary as stated in DWAF (2008b).

- (a) To be generated using Tool for TEACHA (if available) when the TPC for Electrical Conductivity is exceeded or salt pollution expected.
 (b) No data were available for this assessment. All EcoSpecs and TPCs need verification as based on expert judgement.

3. BASIC HUMAN NEEDS

Summary

In total, the BHN Requirements for the entire WMA 11 (for the year of the study - 2013) is estimated at 12,972,388 m³/per annum for the 25 litre limit. The table below provides an estimation of the BHN projection for the future.

Table 3.1 BHN for 25 litre provision limits for selected years

BHNR category	Year (2018) (m ³ per annum)	Year (2023) (m ³ per annum)
25 litre	14,043,924	15,203,970

The above projections assume that there is no additional investment in formal water infrastructure, which is unlikely to be the case. In reality, one should expect that investment in infrastructure will occur and outpace the natural population growth. If this does occur then dependency on natural sources will be reduced.

The above findings are best applied as guidelines values in operational planning. Specifically they should be treated as the minimum river flow volumes, to be guaranteed in any future plans, for each individual catchment or the WMA as a whole. This will ensure that communities, whom are dependent on informal sources, are provided with sufficient supply to ensure their Schedule 1 rights.

Table 3.2: Projected Basic Human Resources Needs including 25 litre criteria

Quaternary catchment	BHNR (25 litres) m ³ per annum	Quaternary catchment	BHNR (25 litres) m ³ per annum	Quaternary catchment	BHNR (25 litres) m ³ per annum
	2018*		2018*		
T40A	124 590	U10A	32 851	U40A	52 027
T40B	105 465	U10B	32 571	U40B	86 641
T40C	228 913	U10C	25 323	U40C	53 540
T40D	425 533	U10D	58 169	U40D	136 577
T40E	434 063	U10E	111 270	U40E	255 915
T40F	187 713	U10F	114 571	U40F	89 954
T40G	189 503	U10G	52 459	U40G	152 177
T51A	7 336	U10H	134 730	U40H	389 703
T51B	5 547	U10J	112 079	U40J	156 768
T51C	100 577	U10K	47 060	U50A	150 681
T51D	7 502	U10L	76 902	U60A	28 961
T51E	23 259	U10M	198 668	U60B	61 536
T51F	6 867	U20A	51 402	U60C	220 885
T51G	9 299	U20B	54 392	U60D	451 796
T51H	204 433	U20C	54 740	U60E	324 617
T51J	165 085	U20D	55 369	U60F	375 569
T52A	165 220	U20E	69 568	U70A	18 690
T52B	172 365	U20F	86 329	U70B	69 539

Quaternary catchment	BHNR (25 litres) m ³ per annum	Quaternary catchment	BHNR (25 litres) m ³ per annum	Quaternary catchment	BHNR (25 litres) m ³ per annum
	2018*		2018*		
T52C	124 559	U20G	148 179	U70C	146 369
T52D	343 696	U20H	176 801	U70D	146 649
T52E	98 370	U20J	574 807	U70E	73 300
T52F	186 338	U20K	123 468	U70F	115 940
T52G	180 183	U20L	335 301	U80A	59 662
T52H	237 293	U20M	961 118	U80B	154 860
T52J	186 208	U30A	397 934	U80C	136 318
T52K	120 202	U30B	429 049	U80D	127 928
T52L	49 340	U30C	164 810	U80E	197 370
T52M	135 672	U30D	116 556	U80F	105 843
		U30E	151 304	U80G	135 871
				U80H	88 675
				U80J	133 242
				U80K	89 814
				U80L	83 598

*2018 was selected, which is a 5 year projection from the initial year of calculation of BHN (2013)

4. GROUNDWATER COMPONENT OF THE RESERVE DETERMINATION — QUANTITY COMPONENT

Table 4.1: Summary of the Reserve (Mvoti to UMzimkhulu Water Management Area)

Groundwater Resource Unit	Catchment	Area(km ²)	Recharge ¹ (Mm ³ /a)	Population ² (Census 2011)	Baseflow ³ (Mm ³ /a)	EWR_MLF ⁴ (Mm ³ /a)	BHN Reserve ⁵ (Mm ³ /a)	Total Reserve (Mm ³ /a)	Reserve % of Recharge
GRU 1	T40A	208	16.03	12218	11.01	18.22	0.15	18.37	114.6
	T40B	278	26.67	10342	14.90	9.78	0.26	10.04	37.65
	T40C	237	17.40	22448	9.07	35.78	0.24	36.02	207.01
GRU 2	T40D	372	19.25	41730	10.27	8.59	0.51	9.10	47.27
	T40E	485	24.96	42566	14.50	72.03	0.54	72.57	290.75
	T40F	335	25.67	18408	17.83	9.33	0.37	9.70	37.79
GRU 3	T40G	300	18.15	18583	15.46	8.05	0.57	8.62	47.49
	T51A	327	10.16	719	20.71	48.92	0.00	48.92	481.5
	T51B	210	12.55	544	12.02	28.11	0.00	28.11	223.98
	T51C	461	33.61	9863	20.92	71.96	0.15	72.11	214.55
	T51D	141	8.67	736	8.69	13.76	0.02	13.78	158.94
	T51E	255	16.19	2281	11.61	25.14	0.12	25.26	156.02
	T51F	306	13.64	673	16.21	21.55	0.00	21.55	158
	T51G	255	23.38	912	12.55	10.61	0.01	10.62	45.42
	T51H	519	27.63	20048	23.25	15.25	0.50	15.75	57
GRU 4	T51J	265	14.55	16189	11.19	7.21	0.19	7.40	50.86
	T52A	382	20.60	16202	16.63	10.65	0.30	10.95	53.2
	T52B	255	14.71	16903	10.49	13.5	0.37	13.87	94.29
GRU 5	T52C	260	11.07	12215	9.69	5.69	0.28	5.97	53.93
	T52D	530	21.60	33704	13.75	131.7	0.41	132.11	611.62
GRU 4	T52E	233	13.99	9647	9.95	5.84	0.28	6.12	43.75
	T52F	417	25.04	18273	17.89	25.69	0.25	25.94	103.59
	T52G	221	14.47	17670	9.59	72.75	0.20	72.95	504.15

Groundwater Resource Unit	Catchment	Area(km ²)	Recharge ¹ (Mm3/a)	Population ² (Census 2011)	Baseflow ³ (Mm3/a)	EWR_MLF ⁴ (Mm3/a)	BHN Reserve ⁵ (Mm3/a)	Total Reserve (Mm3/a)	Reserve % of Recharge
GRU 5	T52H	344	14.99	23270	8.38	3.5	0.63	4.13	27.55
	T52J	367	19.88	18260	10.77	8.47	0.23	8.70	43.76
	T52K	425	19.61	11787	11.64	2.47	0.28	2.75	14.02
	T52L	178	10.28	4838	7.14	6.65	0.06	6.71	65.27
	T52M	313	15.05	13305	11.55	308.93	0.16	309.09	2053.75
GRU 6	U10A	418	16.20	3221	34.57	74.1	0.03	74.13	457.59
	U10B	392	14.70	3194	28.20	58.81	0.13	58.94	400.95
	U10C	267	14.79	2483	17.04	21.67	0.03	21.70	146.72
	U10D	337	26.92	5704	19.07	15.96	0.13	16.09	59.77
	U10E	327	17.59	10912	19.54	142.5	0.64	143.14	813.76
	U10F	379	21.12	11235	17.29	28.06	0.50	28.56	135.23
	U10G	353	18.79	5144	17.16	14.94	0.03	14.97	79.67
	U10H	458	23.17	13212	20.26	187.83	0.17	188.00	811.39
	U10J	505	22.87	10991	15.71	216.12	0.17	216.29	945.74
	U10K	364	14.82	4615	8.93	9.51	0.03	9.54	64.37
GRU 7	U10L	307	10.05	7541	7.77	7.09	0.09	7.18	71.44
	U10M	280	10.74	19482	9.58	228.94	0.13	229.07	2132.87
	U20A	293	19.24	5041	21.65	8.79	0.02	8.81	45.79
	U20B	353	19.02	5334	19.60	29.17	0.01	29.18	153.42
GRU 8	U20C	279	22.00	5368	14.50	20.83	0.43	21.26	96.64
	U20D	338	18.34	5430	18.07	28.22	0.00	28.22	153.87
	U20E	390	21.84	6822	14.72	69.53	0.07	69.60	318.68
	U20F	435	21.42	8466	17.13	16.03	0.29	16.32	76.19
GRU 9	U20G	494	23.72	14531	16.29	21.93	0.30	22.23	93.71

Groundwater Resource Unit	Catchment	Area(km ²)	Recharge ¹ (Mm ³ /a)	Population ² (Census 2011)	Baseflow ³ (Mm ³ /a)	EWR_MLF ⁴ (Mm ³ /a)	BHN Reserve ⁵ (Mm ³ /a)	Total Reserve (Mm ³ /a)	Reserve % of Recharge
GRU 8	U20H	220	14.62	17338	12.20	10.7	1.41	12.11	82.83
GRU 9	U20J	678	24.29	56368	21.52	15.42	6.33	21.75	89.54
	U20K	271	13.50	12108	10.15	12.51	0.24	12.75	94.44
	U20L	328	12.13	32881	9.73	3.25	0.80	4.05	33.39
	U20M	360	21.60	94251	14.17	97.45	23.65	121.10	560.65
GRU 10	U30A	376	20.03	39023	16.03	11.87	0.26	12.13	60.56
	U30B	222	12.98	42074	9.36	6.47	0.00	6.47	49.85
	U30C	242	13.14	16162	10.38	4.85	0.18	5.03	38.28
	U30D	181	9.36	11430	7.61	3.5	0.09	3.59	38.35
	U30E	291	16.33	14838	12.60	8.24	0.08	8.32	50.95
	U40A	317	22.82	5102	14.70	6.41	0.00	6.41	28.09
GRU 11	U40B	388	19.74	8496	11.64	10.39	0.23	10.62	53.8
	U40C	264	12.85	5250	8.46	9.64	0.02	9.66	75.18
	U40D	267	12.85	13393	8.33	9.19	0.21	9.40	73.15
	U40E	318	13.88	25096	10.04	37.29	0.15	37.44	269.74
	U40F	290	14.61	8821	7.95	2.9	0.09	2.99	20.47
	U40G	253	12.02	14923	8.71	14.44	0.02	14.46	120.3
	U40H	361	15.70	38216	13.86	59.31	0.33	59.64	379.87
	U40J	279	15.25	15373	11.56	39.89	0.10	39.99	262.23
GRU 12	U50A	302	14.38	14776	13.00	6.7	0.05	6.75	46.94
GRU 13	U60A	105	7.61	2840	4.57	3.93	0.08	4.01	52.69
	U60B	316	15.33	6034	9.11	5.92	0.03	5.95	38.81
	U60C	365	14.78	21661	9.86	9.2	1.24	10.44	70.64
	U60D	185	9.70	44305	6.88	1.17	1.06	2.23	22.99
	U60E	280	14.54	31833	10.62	7.02	0.47	7.49	51.51
	U60F	264	17.59	36830	10.78	3.49	11.01	14.50	82.43

Groundwater Resource Unit	Catchment	Area(km ²)	Recharge ¹ (Mm3/a)	Population ² (Census 2011)	Baseflow ³ (Mm3/a)	EWR_MLF ⁴ (Mm3/a)	BHN Reserve ⁵ (Mm3/a)	Total Reserve (Mm3/a)	Reserve % of Recharge
GRU 14	U70A	114	12.43	1833	5.20	5.12	0.00	5.12	41.2
	U70B	272	14.24	6819	8.57	6.09	0.31	6.40	44.94
	U70C	350	14.82	14354	11.74	9.48	0.17	9.65	65.11
	U70D	208	17.58	14381	8.42	5.87	0.12	5.99	34.07
	U70E	87	4.77	7188	3.94	2.88	0.34	3.22	67.51
	U70F	60	3.54	11370	2.68	1.94	0.35	2.29	64.69
	U80A	159	9.90	5851	7.73	3.38	0.15	3.53	35.66
GRU 15	U80B	339	16.48	15186	9.97	5.74	0.40	6.14	37.26
	U80C	202	9.65	13368	8.63	5.94	0.14	6.08	63
	U80D	121	7.64	12545	5.97	2.64	0.31	2.95	38.61
	U80E	415	28.00	19355	13.30	7.9	0.30	8.20	29.29
	U80F	137	7.68	10379	5.59	3.71	0.20	3.91	50.91
	U80G	261	12.51	13324	10.78	10.89	0.13	11.02	88.09
	U80H	244	14.94	8696	11.50	12.63	0.23	12.86	86.08
	U80J	371	14.67	13066	12.05	7.25	0.20	7.45	50.78
	U80K	184	8.72	8808	7.69	5.25	0.31	5.56	63.76
	U80L	108	5.46	8198	4.78	3.24	0.36	3.60	65.93

1) Mvoti to uMzimkhulu Water Management Area: Intermediate Groundwater Reserve study (March 2014).

2) Where not verified, assume that entire catchment population is served with groundwater.

3) Mvoti to uMzimkhulu Water Management Area: Intermediate Groundwater Reserve study (March 2014).

4) Hughes, D. A., January 2010. RESDSS Software, Version 2.

5) Based on a consumption of 25 litres per person per day.

Determination of the Reserve for Water Quality in terms of section 16(1)

Groundwater quality per quaternary catchment was determined from the data sets obtained from the Water Management System of the Department of Water and Sanitation. Groundwater quality was defined by the water quality specifications in Table 4.2 below.

Table 4.2: Water Quality Specifications

Chemical Parameter	Target Water Quality Ranges ⁽¹⁾			
	Class 0	Class I	Class II	Class III
pH	6 – 9	5 – 6 & 9 – 9.5	4 – 5 & 9.5 – 10	<4 & >10
Electrical Conductivity	< 70	70 - 150	150 - 370	> 370
Calcium as Ca	< 80	80 - 150	150 - 300	> 300
Magnesium as Mg	< 70	70 - 100	100 - 200	> 200
Sodium as Na	< 100	100 - 200	200 - 400	> 400
Chloride as Cl	< 100	100 - 200	200 - 600	> 600
Sulphate as SO ₄	< 200	200 - 400	400 - 600	> 600
Nitrate as NO _x -N	< 6	6 - 10	10 - 20	> 20
Fluoride as F	< 0.7	0.7 - 1.0	1.5	> 1.5

¹⁾ Ref: Quality of Domestic Water Supplies, Volume 1: Assessment Guide, 2nd Ed.1998. Water Research Commission Report No: TT/98. Pretoria.

- Class 0:** Water is categorised as ideal drinking water, suitable for lifetime use. The values are essentially the same as the target water quality ranges in the South African water quality Guideline for Domestic Use. Water under class 0 complies with the standard limits of SANS 241:2011.
- Class I:** Water is categorised as acceptable drinking water which is still safe for lifetime use; however some mild health effects may, in rare cases, occur. They may also be some aesthetic effects. Water under class I complies with the standard limits of SANS 241:2011.
- Class II:** Water is categorised as tolerable drinking water and which is allowable for limited short term or emergency use. Health effects may be felt more commonly, as compared to Class I, especially by those who are long term users of the water. Water under class II does not comply with the standard limits of SANS 241:2011. Therefore it is not recommended that the water be used continuously for life. This is the only class in the guideline which is not specific in terms of the exact duration that the water can be used for. It states that it can be for short term use, but does not define what length of time 'short term' refers to.
- Class III:** Water is categorised as unacceptable drinking water that will cause serious health effects, particularly in infants and elderly people. Water under class III does not comply with the standard limits of SANS 241:2011. Use of this water is not recommended for drinking purposes.

Table 4.3: Summary of the groundwater quality Classes (Mvoti to UMzimkhulu Water Management Area)

Catchment	Area (km ²)	Population (Census, 2011)	Water Quality Class (WRC, 1998 & SANS)	Water Quality parameters of concern
T40A	208	12218	0	None
T40B	278	10342	0	None
T40C	237	22448	0	None
T40D	372	41730	0	None
T40E	485	42566	0	None
T40F	335	18408	0	None
T40G	300	18583	I	Elevated concentrations of Cl; EC & Na
T51A	327	719	0	None
T51B	210	544	0	None
T51C	461	9863	0	None
T51D	141	736	0	None
T51E	255	2281	II	F
T51F	306	673	0	None
T51G	255	912	0	None
T51H	519	20048	0	None
T51J	265	16189	0	None
T52A	382	16202	0	None
T52B	255	16903	0	None
T52C	260	12215	III	Elevated concentrations of F; Cl; EC &
T52D	530	33704	0	None
T52E	233	9647	I	Elevated concentration of F
T52F	417	18273	I	Elevated concentration of F
T52G	221	17670	0	None
T52H	344	23270	0	None
T52J	367	18260	0	None
T52K	425	11787	I	Elevated concentration of F
T52L	178	4838	0	None
T52M	313	13305	II	Elevated concentration of Cl
U10A	418	3221	I	F
U10B	392	3194	I	F
U10C	267	2483	I	F
U10D	337	5704	0	None
U10E	327	10912	0	None
U10F	379	11235	0	None
U10G	353	5144	0	None
U10H	458	13212	0	None

Catchment	Area (km ²)	Population (Census, 2011)	Water Quality Class (WRC, 1998 & SANS 241:2006)	Water Quality parameters of concern
U40E	318	25096	0	None
U40F	290	8821	0	None
U40G	253	14923	0	None
U40H	361	38216	I	Elevated concentration of F
U40J	279	15373	I	Elevated concentrations of Cl & EC
U50A	302	14776	II	Elevated concentration of Cl
U60A	105	2840	0	None
U60B	316	6034	0	None
U60C	365	21661	II	Elevated concentration of NO ₃
U60D	185	44305	I	Elevated concentration of Cl
U60E	280	31833	I	Elevated concentrations of Ca & EC
U60F	264	36830	I	Elevated concentrations of Cl; EC & NO ₃
U70A	114	1833	0	None
U70B	272	6819	II	Elevated concentration of NO ₃
U70C	350	14354	II	Elevated concentration of NO ₃
U70D	208	14381	0	None
U70E	87	7188	I	Elevated concentrations of Cl; EC; F & Na
U70F	60	11370	I	Elevated concentrations of Cl; EC; F & Na
U80A	159	5851	II	Elevated concentration of F
U80B	339	15186	0	None
U80C	202	13368	0	None
U80D	121	12545	0	None
U80E	415	19355	III	Elevated concentrations of Cl; EC & Na
U80F	137	10379	0	None
U80G	261	13324	0	None
U80H	244	8696	I	Elevated concentration of F
U80J	371	13066	0	None
U80K	184	8808	I	Elevated concentrations of Cl; EC; F & Na
U80L	108	8198	I	Elevated concentrations of Cl; EC; F &

5. ESTUARIES

High confidence Reserve studies were conducted for the Mvoti and uMkomazi estuaries. The EWR in the associated rivers upstream from the said estuaries are indicated below (Table 5.1). This flow is required as a minimum to support the TEC selected for the estuaries (Table 5.1 and 5.2). The Table below provides details of generic ecospecs

Table 5.1: Generic numerical and narrative Ecospecs associated with Ecological Categories for estuaries

ECOLOGICAL CATEGORY	GENERIC NARRATIVE ECOSPECS	ABIOTIC NARRATIVE ECOSPECS (Flow, hydrodynamics, water quality and physical habitat)	BIOTIC NARRATIVE ECOSPECS (microalgae, macrophytes, invertebrates, fish and birds)	NUMERICAL LIMITS FOR ECOSPECS
A	Unmodified, near natural.	Very similar to natural reference conditions	Very similar to natural reference conditions	$\geq A$ ($\geq 93\%$)
A/B				$\geq A/B$ ($\geq 88\%$)
B	Largely natural with few modifications.	Largely natural with few modifications. The flow regime has been only slightly modified and pollution is limited to sediment. A small change in physical habitats may have taken place.	Largely natural with few modifications. A small change in natural species richness, abundance and/or community composition may have taken place. Limited resource utilization may be present. However, the ecosystem functions and processes are essentially unchanged.	$\geq B$ ($\geq 78\%$)
B/C				$\geq B/C$ ($\geq 73\%$)
C	Moderately modified.	Moderately modified. Some loss and change in flow, hydrodynamics, water quality and habitat have occurred, but the basic ecosystem processes are still predominantly unchanged.	Moderately modified. Loss and change of natural species richness, abundance and/or community composition have occurred, but the basic ecosystem functions and processes are still predominantly unchanged.	$\geq C$ ($\geq 63\%$)
C/D				$\geq C/D$ ($\geq 58\%$)
D	Largely modified.	Largely modified. A large change (or loss) of natural abiotic processes has occurred.	Largely modified. A large loss of natural species richness, abundance and/or community composition have occurred, with ecosystem processes and functions significantly disrupted.	$\geq D$ ($\geq 43\%$)
D/E				$\geq D/E$ ($\geq 38\%$)
E	Seriously modified.	Seriously modified. The loss of abiotic processes and functions is extensive.	Seriously modified. Extensive loss of natural species richness, abundance and/or community composition have occurred, with ecosystem functions severely disrupted.	$\geq E$ ($\geq 23\%$)
E/F				$\geq D/E$ ($\geq 18\%$)
F	Critically / Extremely modified.	Critically / Extremely modified. Modifications have reached a critical level and the system has been modified completely with an almost complete loss of natural abiotic processes and functions. In the worst instances changes are irreversible.	Critically / Extremely modified. Almost complete loss of natural species richness, abundance and/or community composition have occurred. In the worst instances changes are irreversible.	$\geq F$ (0-17%)

Table 5.2: River flow contribution to the UMKomazi and Mvoti estuaries

RU	Biophysical node and EWR site	River	Target EC	nMAR (MCM)	Low EWR flows (%nMAR)	Total EWR flows (%nMAR)	uMKHOMAZI (U1): IUA U1-4			
							Sep		Feb	
							90%	60%	90%	60%
MRU uMKHOMAZI D	U10M-04746 Mk_I_EWR3	uMkhomazi	C	1068.6	21.2	31.1	1.532	2.203	5.589	7.668
MRU MVOTI C	U40H-04064 Mv_I_EWR2	Mvoti	C	273.96	14.4	21.2	0.174	0.402	0.622	1.336

Table 5.3: ESTUARIES: Eco specs for water quality, geomorphology, riparian vegetation, macro-invertebrates and fish in HIGH priority RUs

Component/ Indicator	TEC	Eco specification
uMKHOMAZI ESTUARY		
Hydrology	C/D	<ul style="list-style-type: none"> • Maintain the target EC (>57%). • Monthly river inflow > 1.0 m³/s • Monthly river inflow > 2.0 m³/s persists for longer than three months in a row. • Monthly river inflow > 5.0 m³/s for more than 30% of the time.
Hydrodynamics	A	<ul style="list-style-type: none"> • Maintain the target EC (>93%). • Mouth closure occurs less than 2 - 3 weeks in a year. • Mouth closure occurs for less than two years out of ten. • Mouth closure do not occur between September and April.
Water quality		Maintain the target EC (>63%). ROQs for water quality in river inflow to protect estuarine ecosystem quality: <ul style="list-style-type: none"> • pH: 7.5 - 8.5. • DO > 6 mg/L. • Turbidity (low flow < 5m³/s): <15 NTU. • Turbidity (low flow > 5m³/s): Naturally turbid. • Dissolved nutrients (low flow < 5m³/s): NO_x-N <150 µg/L; NH₃-N <20 µg/L; PO₄-P <10 µg/L. • Dissolved nutrients (high flow > 5m³/s): NO_x-N <200 µg/L; NH₃-N <20 µg/L; PO₄-P <20 µg/L.
	C	Minimum requirement for recreational use (DEA, 2012): <ul style="list-style-type: none"> • <i>Enterococci</i>: Ninety percentile (90%ile) over a 12 month running period ≤ 185 counts per 100 ml. • <i>E. coli</i>: Ninety percentile (90%ile) over a 12 month running period ≤ 500 counts per 100 ml. ROQs for water quality in estuary to protect estuarine ecosystem quality: <ul style="list-style-type: none"> • Salinity: 0 in the upper reaches; > 20 middle reaches during the low flow season; freshwater dominated for 70% of the time. • Turbidity (low flow < 5m³/s): Average <10 NTU in any sampling survey. • pH: Average 7.0 - 8.5 in any sampling survey.

Component/ Indicator	TEC	Eco specification
		<ul style="list-style-type: none"> Dissolved oxygen: Average >6 mg/L in any sampling survey. Dissolved nutrients (low flow < 5m³/s): Average NO_x-N < 150 µg/L, NH₃-N < 20 µg/L and PO₄-P < 10 µg/L in any sampling survey. Dissolved nutrients (high flow > 5m³/s): Average NO_x-N < 300 µg/L, NH₃-N < 20 µg/L and PO₄-P < 20 µg/L in any sampling survey. Total metal concentrations in water not to exceed target values as per SA Water Quality Guidelines for coastal marine waters (DWAF, 1995). Total metal concentration in sediment not to exceed target values as per WIO Region guidelines (UNEP/Nairobi Convention Secretariat and CSIR, 2009).
Sediment dynamics	B	Maintain the target EC (>78)
Microalgae	B	Maintain the target EC (>78%).
Macrophytes	D	Maintain the target EC (>43%).
Invertebrates	B	Maintain the target EC (>78%).
Fish	D	Maintain the target EC (>43).
Birds	C	Maintain the target EC (>63%).
INVOTI ESTUARY		
Hydrology	C/D	Maintain the target EC (>57%). <ul style="list-style-type: none"> Monthly river inflow > 1.0 m³/s. Monthly river inflow > 2.0 m³/s persists for longer than three months in a row. Monthly river inflow > 2.0 m³/s for more than 50% of the time.
Hydrodynamics	A	Maintain the target EC (>93%). <ul style="list-style-type: none"> Mouth closure occurs less than two - three weeks in a year. Mouth closure occurs for less than two years out of ten. Mouth closure do not occurs between November and June.
		Maintain the target EC (>57%).Ecospecs for river inflow to protect estuarine ecosystem quality: <ul style="list-style-type: none"> pH: 7.0 - 8.5. DO > 4 mg/L. Turbidity (low flow): <15 NTU. Dissolved nutrients: NO_x-N < 400 µg/L; NH₃-N < 30 µg/L; PO₄-P < 25 µg/L.
Water quality	C/D	ROQs for water quality in estuary to protect estuarine ecosystem quality: <ul style="list-style-type: none"> Salinity: Average salinity in waters upstream of 1 km from mouth <20 PSU; Average salinity throughout estuary <1 PSU for at least 50% of time Turbidity (low flow): Average <10 NTU in any sampling survey. pH: Average 7.0 - 8.5 in any sampling survey. Dissolved oxygen: Average > 4 mg/L in any sampling survey.

Component/ Indicator	TEC	Eco specification
		<ul style="list-style-type: none"> Dissolved nutrients: Average $\text{NO}_x\text{-N}$ < 400 $\mu\text{g/L}$, $\text{NH}_3\text{-N}$ < 30 $\mu\text{g/L}$ and $\text{PO}_4\text{-P}$ < 25 $\mu\text{g/L}$ in any sampling survey. Total metal concentrations in water not to exceed target values as per SA Water Quality Guidelines for coastal marine waters (DWAf, 1995). Total metal concentration in sediment not to exceed target values as per WIO Region guidelines (UNEP/Nairobi Convention Secretariat and CSIR, 2009).
Sediment dynamics	B/C	Maintain the target EC (>72%).
Microalgae	B	Maintain the target EC (>78%).
Macrophytes	D	Maintain the target EC (>43%).
Invertebrates	E	Maintain the target EC (>23%).
Fish	D	Maintain the target EC (>43%).
Birds	E	Maintain the target EC (>23%).

6. WETLANDS

Detailed Eco specifications for High Priority Individual Wetlands

Of the large wetlands identified in the WMA, four were selected as priorities for the determination of detailed Ecospecs based on their importance and availability of monitoring and detailed baseline data. These four wetland systems are:

- The Ntsikeni wetland, a RAMSAR site within -quaternary catchment T51H-04846;
- The uMngeni sponge, a RAMSAR site within -quaternary catchment U20A-04253;
- The Swamp, a priority KZN Ezemvelo wetland monitoring site located on the Pholela River within sub-quaternary catchment T51E-04478; and;
- The Mvoti Vlei, a priority KZN Ezemvelo wetland monitoring site located on the Mvoti River within sub-quaternary catchment U40A- 03869.

These wetlands have baseline EcoStatus and other monitoring data available which enabled detailed, specific numeric Ecospecs to be determined for these systems.

For quaternary catchments with moderate or higher EIS, the average wetland EIS and PES scores are provided in Table 6.1 and Table 6.2 respectively.

Table 6.1: Average wetland EIS (estimated at the quaternary catchment scale) for quaternary catchments in the Mvoti WMA

Average EIS	Quaternary Catchments
Marginal to low	U40G, U40D, U40E, U40H, U10A, U20K, U20G, U30E, U30C, U30A, U10B, U30D, U20L, U20M, U60F, U60D, U70C, U10L, U70D, U70F, U10M, U70E, U80J, U80K, U80L, U80G, U80H, U80B, T52G, U80F, T52J, U80D, U80C, T52M, U80A, T52L, T40D, T40G, T40F.
Moderate	U40F, U40B, U40C, U20E, U20J, U30B, U20H, U60A, U60C, U60B, U70A, U70B, U60E, T52C, T52D, U80E, T52F, T40B, T52K, T40A, T40C, T40E.
High	U50A, U20F, U40J, U20D, U20B, U20C, U10E, U10C, U10G, T51D, U10F, T51B, T51A, T51E, U10H, T51F, T51C, T52A, T51G, U10J, T51J, U10K, T52B, T52E, T52H
Very High	U40A, U10D, U20A, T51H

Table 6.2: Average wetland PES (estimated at the quaternary catchment scale) for quaternary catchments in the Mvoti WMA

Average PES (baseline EC)	Quaternary Catchments
B	U10E, T51H*, T51J,
B/C	T51B, T52E,
C	T40C, T40E, T51A, T51C, T51D, T51E*, T51G, T52A, T52B, T52C, U10K, U10C, U10D, U10F, U10G, U20A*, U20E, U20F, U20D, U20C, U40B, U60C
C/D	U10H, U30B, U40C, U40F, U60B, U70A, T40B, T51F, T52D, T52H, T52F, T52K
D	U10J, U20B, U20H, U20J, U40A*, U40J, U50A, U60A, U60E, U70B, U80E, T40A

* Highlighted cells denote the very high priority wetlands of the WMA for which baseline data are available.

Detailed Eco specifications for High Priority Individual Wetlands

Due to limited available data, Ecospecs were developed for four of the priority wetlands identified in Table 6.3.

Table 6.3: Sub-quaternary catchments which have FEPA wetlands with a very high, high or moderate dependence on direct river-flows

Sub Quaternary	Name	IBAs ¹ or high priority conservation area	NFEPA ² wetlands present	River-linked dependence
T51E-04478*	Pholela	Priority KZN Ezemvelo wetland monitoring site ("the Swamp").	Large valley bottom wetlands.	VERY HIGH
T51H-04846	Lubhukwini	RAMSAR site (Ntsikeni wetland and nature reserve) and priority KZN Ezemvelo wetland monitoring site.	Fairly extensive valley bottom (mainstem and tributary) wetlands.	HIGH
U40A- 03869	Mvoti vlei	Priority KZN Ezemvelo monitoring site.	Large wetland complex.	HIGH
U20A-04253	uMngeni sponge	RAMSAR site, Priority KZN Ezemvelo monitoring site.	Pockets of valley bottom and tributary wetlands.	HIGH

¹ Important Birding Areas

² National Freshwater Ecosystem Priority Areas

* Highlighted cells denote the very high priority wetlands of the WMA for which baseline data are available

Table 6.4: Detailed ecological specification for high priority individual wetlands

IUA	SQ	Component	Subcomponent	Eco specs		Indicator/measure
				Descriptive	Numerical	
The Mvoti vlei (priority KZN Ezemvelo monitoring site)						
MRU Mvoti A	U40A- 03869	Water quantity	Water inputs	The quantity and timing of inputs, and the distribution and retention patterns within the wetland must be maintained to avoid the loss of wetland hydrological function.	Present condition is an E. The numerical criteria should equate to improve the present condition through improved water inundation patterns and flows.	Wetland hydrology score. Detailed assessment of wetland hydrology using a PES tool at 3 - 5 years intervals.
		Habitat	Geomorphology	The wetland geomorphology must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is an A. The numerical criteria should equate to the same EC.	Wetland geomorphology score. Geomorphology module of a wetland PES tool at 3 - 5 year intervals.
		Habitat	General vegetation	The wetland vegetation must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is a D. The numerical criteria should equate to the same or greater EC.	Wetland vegetation score: assessment of vegetation using a wetland PES tool at 3 - 5 year intervals.
		Habitat	PES overall	The overall wetland PES must be maintained.	Present condition is a D. The numerical criteria should equate to the same or greater EC.	Wetland PES assessment tool at 3 - 5 year intervals.
		Biota	Wattled cranes	Water quantity, vegetation and landuse practices must be maintained at levels that do not cause the population of wattled cranes to decline.	Presence of at least six breeding pairs of wattled crane (baseline of 2014).	The number of breeding pairs of wattled crane.
		Water quality	Detailed data of water quality indicators for this wetland are not available and no detailed Ecospecs related to water quality have been determined.			
The Swamp (priority KZN Ezemvelo wetland monitoring site)						
RU M24	T51E-04478	Water availability	Water inputs	The quantity and timing of inputs, and the distribution and retention patterns within the wetland must be maintained to avoid the loss of wetland hydrological function.	Present condition is a D. The numerical criteria should equate to the same or greater EC.	Wetland hydrology score. Detailed assessment of wetland hydrology using a PES tool at 3 - 5 years intervals.
		Habitat	Geomorphology	The wetland geomorphology must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is a C. The numerical criteria should equate to the same or greater EC.	Wetland geomorphology score. Geomorphology module of a wetland PES tool at 3-5 year intervals.

IUA	SQ	Component	Subcomponent	Eco specs		Indicator/measure
				Descriptive	Numerical	
		Habitat	General vegetation	The wetland vegetation must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is a C. The numerical criteria should equate to the same or greater EC.	Wetland vegetation score: assessment of vegetation using a wetland PES tool at 3 - 5 year intervals.
		Habitat	<i>Cyperus marginatus</i> vegetation	The extent and availability of <i>C. marginatus</i> will be maintained.	Current areas is not known, but should not reduce more than 20% below baseline..	Area of vegetation type at 3 - 5 year intervals
		Habitat	PES overall	The overall wetland PES must be maintained.	Present condition is a C. The numerical criteria should equate to the same or greater EC.	Wetland PES assessment tool at 3 - 5 year intervals.
		Biota	Except for the important <i>C. marginatus</i> , no species specific Ecospecs have been set for this wetland.			
		Water quality	Detailed data of water quality indicators for this wetland are not available and no detailed Ecospecs related to water quality have been determined.			
Ntsikeni wetland (a Ramsar wetland)						
Ru Mz8	T51H-04846	Water availability	Hydrology	The quantity and timing of inputs, and the distribution and retention patterns within the wetland must be maintained to avoid the loss of wetland hydrological function.	Present condition is an A. The numerical criteria should equate to maintain the present condition.	Wetland hydrology score. Detailed assessment of wetland hydrology using a PES tool at 3 - 5 years intervals.
		Habitat	Geomorphology	The wetland geomorphology must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is an A. The numerical criteria should equate to maintain the present EC.	Wetland geomorphology score. Geomorphology module of a wetland PES tool at 3 - 5 year intervals.
		Habitat	General vegetation	The wetland vegetation must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is a B. The numerical criteria should equate to the same or greater B.	Wetland vegetation score: assessment of vegetation using a wetland PES tool at 3 - 5 year intervals.
		Habitat	PES overall	The overall wetland PES must be maintained.	Present condition is an A. The numerical criteria should equate to maintain the EC.	Wetland PES assessment tool at 3 - 5 year intervals.
		Biota	Wattled cranes	Water quantity, vegetation and landuse practices must be maintained at levels that do not cause the population of wattled cranes to decline.	Presence of at least three breeding pairs of wattled crane and breeding success (baseline of 2014).	The number of breeding pairs of wattled crane.

IUA	SQ	Component	Subcomponent	Eco specs		Indicator/measure
				Descriptive	Numerical	
		Biota	European Bittern	Water quantity, vegetation and landuse practices must be maintained at levels that do not cause the population of European Bitterns to decline.		Annual presence of European Bitterns (sighted or indicated from call).
		Water quality	Detailed data of water quality indicators for this wetland are not available and no detailed Ecospecs related to water quality have been determined.			
Mgeni sponge (Ramsar site)						
MRU uMhA	U20A-04253	Water availability	Hydrology	The quantity and timing of inputs, and the distribution and retention patterns within the wetland must be maintained to avoid the loss of wetland hydrological function.	Present condition is a C. The numerical criteria should equate to maintain or improve the present condition.	Wetland hydrology score. Detailed assessment of wetland hydrology using a PES tool at 3 - 5 years intervals.
		Habitat	Geomorphology	The wetland geomorphology must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is an A. The numerical criteria should equate to the same EC.	Wetland geomorphology score. Geomorphology module of a wetland PES tool at 3 - 5 year intervals.
		Habitat	General vegetation	The wetland vegetation must be maintained to ensure that the ecosystem structure and function are maintained.	Present condition is a C. The numerical criteria should equate to the same or greater EC.	Wetland vegetation score: assessment of vegetation using a wetland PES tool at 3 - 5 year intervals
		Habitat	PES overall	The overall wetland PES must be maintained.	Present condition is a C. The numerical criteria should equate to the same or greater EC.	Wetland PES assessment tool at 3 - 5 year intervals.
		Biota	Wattled cranes	Water quantity, vegetation and landuse practices must be maintained at levels that do not cause the population of wattled cranes to decline.	Presence of at least 5 breeding pairs of wattled crane and breeding success.	The number of breeding pairs of wattled crane.

ISAZISO JIKELELE

**UMNYANGO WEZAMANZI NOKUHLANZWA
UMTHETHO WEZAMANZI KAZWELONKE, 1998
(UMTHETHO NOMBOLO 36 KA-1998)****UKUNQUNYWA OKUSIKISELWE KOKUGCINWA KWEZINSIZAKALO ZAMANZI
EZIZIBENI ZOMVOTI KUYA KU-UMZIMKHULU**

Mina, Deborah Mochotlhi, ngokwesikhundla somsebenzi njengoMqondisi-Jikelele woMnyango Wezamanzi Nokuhlanzwa, ngokuhambisana nesigaba 13 soMthetho Wezamanzi Kazwelonke, 1998 (uMthetho Nombolo 36 ka-1998) ("uMthetho") kanye noMthetho 3 Wemithetho Yokusungulwa Kohlelo Lokuhlukanisa (Nombolo R. 810 Umagazini kaHulumeni, Nombolo 33541, 17 kuLwezi 2010), futhi oguyazwe ngokufanelekile ngokuphathelene nesigaba 16(1) soMthetho, ngalokhu ngishicilela ukuphawula komphakathi ngokuya ngesigaba 16(3) soMthetho kanye nesama -63 (1) (a) soMthetho, ukunqunywa okusikiselwe kokugcinwa kwezinsizakalo zamanzi ezizibeni zoMvoti kuya ku-Umzimkhulu.



NKS. DEBORAH MOCHOTLHI

UMQONDISI-JIKELELE WOMNYANGO WEZAMANZI NOKUTHUTHWA KWENDLE
USUKU: 02/09/2018

UKUNQUNYWA OKUSIKISELWE KOKUGCINWA KWEZINSIZAKALO ZAMANZI EZIZIBENI ZOMVOTI KUYA KU-UMZIMKHULU NGOKUPHATHELENE NESIGABA 16(1) KANYE NOMTHETHO WAMANZI KAZWELONKE, 1998 (UMTHETHO NOMBOLO 36 KA-1998)

ISHEDULI

1. INCAZELO YEZINSIZAKALO ZAMANZI

1.1 Ukugcinwa kunqunyelwe zonke noma ingxenye yezinsizakalo zamanzi ngaphakathi kweziziba zoMvoti kuya ku-Umzimkhulu njengoba kubekwe ngezansi:

Indawo Yokulawula Amanzi: uMvoti kuya ku-Umzimkhulu

Isiziba: Isiziba Esiyisisekelo i-U

Izindawo zokugeleza: Izindawo ezinkulu zokugeleza u-T40 (iMtamvuna) kanye no-T52 (Umzimkhulu)

Umfula(imi): Imifula emikhulu emikhulu ihlanganisa izinhlelo zemifula uMvoti, uMngeni, uMkhomazi, Umzimkhulu kanye noMtamvuna

Isizalo (izi): Umkomaas kanye noMvoti

1.2 Ungqongqoshe, ngokwesigaba 12 soMthetho Wamanzi Kazwelonke, ka-1998 (uMthetho Nombolo 36 ka-1998) ("uMthetho"), uyalele uhlelo lokuhlukanisa izinsizakalo zamanzi ngokukhipha Isaziso sikaHulumeni Nombolo.R. 810, esishicilelwe kuMagazini kaHulumeni Nombolo 33541 wangomhlaka 17 kuLwezi 2010. Ngokuphathelelene nesigaba 16(1) soMthetho, uNgqongqoshe kumele, ngokushesha uma kungenzeka ngemva kokunqunywa kwekilasi lazo zonke noma lengxenye yezinsizakalo zamanzi, ngeSaziso esikuMagazini, anqume ukugcinwa kwazo zonke noma kwengxenye yezinsizakalo zamanzi.

2. Ungqongqoshe, ngokuphathelelene nesigaba 16(3) soMthetho, usikisela, injongo yesigaba 16(1) soMthetho, Ukugcinwa okulandelayo kweziziba zoMvoti kuya ku-Umzimkhulu.

3. UKUNQUNYWA OKUSIKISELWE KOKUGCINWA NJENGOBA KUDINGEKA NGOKUPHATHELENE NESIGABA 16(1) KANYE NO-(2).

Isifinyezo sengxenye yenani Lomfula esihlanganisa i-EWR kanye ne-BHN ngokuphathelelene nesigaba 16(1) seziziba zoMvoti kuya ku-Umzimkhulu sibekwe kwiThebula 1.1-1-118.

Isifinyezo sengxenye yezinga Lomfula osezingsini ze-EWR ngokuphathelelene nesigaba 16(1) seziziba zoMvoti kuya ku-Umzimkhulu sibekwe kwiThebula 2.1-2.12.

Isifinyezo Sesiqiwi i-BHN sibekwe kwiThebula 3.3.

Isifinyezo somnikelo wamanzi angaphansi komhlaba Esiqiwi Senani kanye Nezinga Lamanzi ngokuphathelelene nesigaba 16(1) soMvoti kuya ku-Umzimkhulu sibekwe kwiThebula 4.1-4.3.

Isifinyezo se-EWR ngokuphathelelene nesigaba 16(1) sezizalo zoMvoti kanye no-uMkomazi sibekwe kwiThebula 5.1-5.3.

Isifinyezo sokuhlolwa Kwesiqiwi sezindawo zasemaxhaphozini sibekwe kwiThebula 6.1-6.4.

Isiqiwi sizosebenza kusukela ngosuku okusayinwe ngalo ngokuphathelelene neSigaba 16(1) soMthetho Wamanzi Kazwelonke, ka-1998, ngaphandle uma kuchazwe nguNgqongqoshe ngenye indlela.

AMA-AKHRONIMU KANYE NEZINCAZELO**Ama-akhronimu**

i-BHN	Basic Human Needs (Izidingo Zabantu Eziyisisekelo)
i-EcoSpecs	Ecological Specifications (Ukucaciswa Kwemvelo)
i-EIS	Ecological Importance and Sensitivity (Ukubaluleka kanye Nokuzwela Kwemvelo)
i-EWR	Ecological Water Requirement (Imfuneko Yemvelo Yamanzi)
i-GRAII	Groundwater Resource Assessment Phase II (Isigaba II Sokuhlolwa Kwezinsizakalo Zamanzi Angaphansi Komhlaba)
i-GRDM	Groundwater Reserve Determination Methodology (Indlela Yokunquma Inqolobane Yamanzi Angaphansi Komhlaba)
Ama-GRU	Groundwater Resource Units (Amayunithi Ezinsizakalo Zamanzi Angaphansi Komhlaba)
i-IUA	Integrated unit of analysis (Iyunithi Yokuhlaziya Edidiyelwe)
i-MAR	Mean Annual Runoff (Ukugeleza Konyaka)
i-MCM	Million Cubic Metres (amaMitha a-Cubic Ayizigidi)
i-nMAR	Natural Mean Annual Runoff (Ukugeleza Kwemvelo Konyaka)
i-pMAR	Present Mean Annual Runoff (Ukugeleza Konyaka Okukhona)
i-PES	Present Ecological Status (Isimo Semvelo Esikhona)
i-REC	Recommended Ecological Category (Isigaba Semvelo Esiphakanyisiwe)
i-SQ	i-Sub-quaternary
i-TEC	Target Ecological Category (Isigaba Semvelo Esihlosiwe)
ama-TPC	Thresholds of Potential Concern (Unqenqeme Lwenkathazo Engabakhona)

Izincazelo

Ukugeleza okuyisisekelo Base kungukugeleza okugcinwayo emifuleni ngesikhathi sezimo sesimo sezulu esomile noma esifanele, kodwa hhayi okudalwe amanzi angaphansi komhlaba, kuhlenganisa igalelo lokugeleza okubambezelekile kanye nokukhishwa kwamanzi angaphansi komhlaba.

i-EWR ibhekisela kumaphethini okugeleza (ubukhulu, isikhathi kanye nobude besikhathi) kanye nezinga lamanzi elidingekayo ukugcina izinto eziphilayo ezihlala emfuleni esimeni esithile.

Akuvuselelwe ukwengezwa kwamanzi endaweni emanzi, noma ngokushona ngaphansi kwemvula noma kwamanzi asemhlabeni kanye/noma ukufuduka nganxanye kwamanzi angaphansi komhlaba avela eziphethwini eziseduze.

Akugcinwe inani kanye nezinga lamanzi adingekayo ukwanelisa izidingo zabantu eziyisisekelo ngokuthola ukuhlinzekwa kwamanzi ayisisekelo kanye nokuvikela imvelo yasemanzini ukuze kuvikeleke ukuthuthukiswa okuqhubekayo ngokwemvelo kanye nokusetshenziswa kwezinsizakalo zamanzi ezifanelekile.

INQOLOBANE ESIKISELWE YEZINSIZAKALO ZAMANZI NJENGOBA IDINGEKA NGOKUPHATHELENE NESIGABA 16(1) KANYE NO-(2) SOMTHETHO WAMANZI KAZWELONKE, KA-1998.

Inqolobane inezingxenywe ezimbili – Isiqiwi i-BHN kanye Nesiqiwi Semvelo (i-Ecological Reserve (ER)). Isiqiwi i-BHN sihlizeka ezibalulekile zabantu abanakwa ngezinsizakalo zamanzi okukhulunywa ngazo futhi sihlenganisa namanzi okuphuza, okulungisa ukudla kanye nawenhlanzeko yomuntu siqu. I-ER ihlobene namanzi adingekayo ukuvikela imvelo yasemanzini yezinsizakalo zamanzi. Ukugcinwa kubhekisela kukho kokubili **inani** kanye **nezinga** lezinsizakalo zamanzi, futhi kuzohluka ngokuya ngesigaba senzisakalo (Isigaba I, II kanye no-III).

1. INGXEYWE YAMANZI ASEMHLABENI EMIFULA YEZINGOSI ZE-EWR EZIKHETHIWE

IThebula 1.1: Isifinyezo sezingosi ze-EWR

i-RU	Indawo yomfula yenhlobo-vo kanye nengosi i-EWR	Umfula	i-EC ehlosiwe	i-nMAR (i-MCM)	Ukugelez a okuncane kwe-EWR (i-%le-nMAR)	Ingqikithi yokugelez a kwe-EWR (i-%le-nMAR)	Mandulo*		Nhlolanja*		
							(m³/s)		(m³/s)		
							u-90%*	u-60%*	u-90%*	u-60%*	
i-MRU MT B	i-T40E-05601 Mt_R_EWR1	uMtamvuna	C	79.22	19.1	32.1	0.332	0.525	1.157	1.606	
uMKHOMAZI (U1): IUA U1-2											
i-MRU uMKHOMAZI B.3	i-U10E-04380 Mk_I_EWR1	uMkhomazi	C	683.17	18.1	27.2	0.890	1.458	4.130	5.542	
uMKHOMAZI (U1): IUA U1-3											
i-MRU uMKHOMAZI C	i-U10J-04679 Mk_I_EWR2	uMkhomazi	B	890.91	14.2	35.8	1.551	2.869	5.991	10.488	
uMKHOMAZI (U1): IUA U1-4											
i-MRU uMKHOMAZI D	i-U10M-04746 Mk_I_EWR3	uMkhomazi	C	1068.6	21.2	31.1	1.532	2.203	5.589	7.668	
uMNGENI (U2): IUA U2-1											
i-MRU uMnA	i-U20A-04253 Mg_R_EWR1	uMngeni	C/D	79.22	10.1	21.7	0.016	0.098	0.179	0.327	
uMNGENI (U2): IUA U2-2											
i-M KAR C	i-U20E-04170 Mg_R_EWR3	uMngeni	B	70.11	27.3	43.5	0.032	0.245	0.203	0.758	
i-MRU uMnB	i-U20E-04243 Mg_I_EWR2	uMngeni	C	228.19	14.7	20	0.460	0.810	0.450	0.990	

uMNGENI (U2): IUA U2-5									
i-MRU uMn D	i-U20L-04435 Mg I EWR5	uMngeni	D	583.6 6	21.2	24.3	0.856	2.01 7	1.655 2.47 7
uMVOTI (U4): IUA U4-1 & U4-2									
i-MRU HEYNS A	i-U40B-03770 Mv I EWR1	uMvoti	C	17.36	18.2	27.9	0.030	0.03 7	0.067 0.09 3
uMVOTI (U4): IUA U4-3									
i-MRU MVOTI C	i-U40H-04064 Mv I EWR2	uMvoti	C	273.9 6	14.4	21.2	0.174	0.40 2	0.622 1.33 6
iLOVU (U7): IUA U7-1									
i-MRU LOVU D	i-U40H-04064 Lo R EWR1	iLovu	B/C	87.76	22.8	37.9	0.142	0.18 9	0.359 0.53 3

*uLwezi ubuye ucatshangelwe njengenyango engenayo ingcindezi njengoba abasebenzisi bamanzi (okungukuthi, abaniseli njll.) bafuna ukwanda kwamanzi ngemva kwasebusika futhi usemqhudelwaneni wamanzi ngezemvelo. *uNhlolanja ukhethwe njengenyanga yokubheka ngenxa yokuthi ubonisa inyanga yonyaka emanzi. ** Iphesenti likhomba ukuqhubeka kokusabalala okuvamile kokugeleza kwenyanga ezindaweni, okuvezwe njengamaphesenti enyanga (u-90% kanye no-60%) ukuthi ukugeleza kufanele kulingane noma kweqe amanani amancane abonisiwe.

uMTAMVUNA (T4): i-IUA T4-1

i-IUA T4-1 – ISIZIBA SOMFULA uMTAMVUNA



iThebula 1.2: i-IUA T4-1

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-IUA T4-1					
i-RU MT1	i-T40A-05450	iMafadobo	B	B	B
	i-T40A-05487	iGoxe	B/C	B	B
	i-T40C-05510	uMtamvuna	B/C	B	B
i-RU MT2	i-T40C-05530	uMtamvuna	B	B	B
	i-T40C-05566	iLudeke	B	B	B
	i-T40C-05589	iKuNtlamvukazi	B	B	B
	i-T40C-05600	iLudeke	B	B	B
i-MRU MT B	i-T40C-05520	uMtamvuna	B/C	B/C	B/C
	i-T40D-05537	uMtamvuna	B	B	B
	i-T40D-05584	uMtamvuna	B	B	B
	i-T40D-05707	uMtamvuna	C	C	C
	i-T40E-05601	uMtamvuna	C	C	C
	Mt R EWR1				
i-RU MT3	i-T40B-05337	iWeza	C	C	C
	i-T40D-05615	iTungwana	B	B	B
	i-T40D-05643	iGwala	B	B	B
	i-T40D-05683	iNtelekweni	B/C	B/C	B/C

i-T40D-05719	iLondobezi	B	B	B
i-T40E-05767	iHlolweni	B/C	B	B

iThebula 1.3: i-RU MT1

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane - (i-%le- nMAR)	Ingqikithi yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T40A-05450										
B	27.6	26.2	7.34	26.60	10.102	36.60	0.124	0.207	0.159	0.268
i-T40A-05487										
B	30.0	28.4	7.76	25.9	10.76	35.9	0.144	0.303	0.373	1.464
i-T40C-05510*										
B	65	61.25	n/a	n/a	27.78	43	0.264	0.126	0.052	0.033

*Kulinganiselwe nge-Mt_R_EWR1 (C REC).

iThebula 1.4: i-RU MT2

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane - (i-%le- nMAR)	Ingqikithi yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Lwezi(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T40C-05566										
B	28.7	28.1	7.56	26.3	10.41	36.2	0.094	0.129	0.213	0.259
i-T40C-05589										
B	12.2	11.9	3.55	29.1	4.78	39.1	0.049	0.054	0.073	0.116
i-T40C-05600										
B	14.1	13.6	4.181	29.7	5.57	39.5	0.025	0.038	0.078	0.129
i-T40C-05530*										
B	95.8	91.46	n/a	n/a	40.9	42.65	0.178	0.060	0.043	0.020

* Kulinganiselwe nge-Mt_R_EWR1 (C REC).

iThebula 1.5: i-

i-MRU MT B ne-MT_R_EWR1

i-EWR	i-TEC (i-REC)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja (m³/s)	
								u-90%	u-70%	u-90%	u-70%
i-MT_R_EWR1 (i-T40E-05601)	C	79.22	60.46	44.43	19.1	74.76	32.1	0.33	0.53	1.16	1.61

iThebula 1.6: i-RU MT3

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja (m³/s)	
							u-90%	u-60%	u-90%	u-60%

i-T40B-05337										
C	74.40	52.60	13.94	18.70	20.37	27.40	0.1	0.12	0.29	0.5
i-T40D-05615										
B	2.2	2.0	0.65	29.30	0.90	40.40	0.007	0.011	0.013	0.02
i-T40D-05643										
B	5.6	5.3	1.55	27.70	2.17	38.70	0.024	0.029	0.027	0.039
i-T40D-05683										
B/C	8.9	8.6	2.04	22.90	2.94	33.00	0.035	0.040	0.031	0.048
i-T40D-05719										
B	4.6	4.5	1.23	26.70	1.75	37.90	0.020	0.025	0.031	0.041
i-T40E-05767										
B	22.5	22.3	5.306	23.5	8.117	36	0.055	0.115	0.095	0.148

uMTAMVUNA (T4): i-IUA T4 SC

i-IUA T4-SC – INDAWO

ESENINGIZIMU YASOGWINI ku-T4

iThebula 1.7: I-IUA T4 SC



I-RU	I-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU SC1	i-T40F-05666	iMbizana	B	B	B
i-RU SC2	i-T40G-05616	iVungu	B/C	B	B

iThebula 1.8: i-RU SC2 (i-T40G-05616)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja (m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T40G-05616										
B	23.2	23.1	5.046	21.8	7.92	34.2	0.37	0.79	0.37	1.46

UMZIMKULU (T5): i-IUA T5-1**i-IUA T5-1 – INDAWO YASENTABENI
YOMZIIMKHULU ONGENHLA****iThebula 1.9: I-IUA T5-1**

I-RU	I-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU Mz1	i-T51A-04431	uMzimkhulu	B	B	B
	i-T51B-04421	uMzimkhulu	B	B	B
i-RU Mz2	i-T51A-04522	uMzimude	B	B	B
	i-T51A-04608		B	B	B
	i-T51A-04551	uMzimude	B/C	B	B
i-RU Mz7	i-T51G-04669	iNdawana	B	B	B
	i-T51G-04751		B	B	B
i-RU Mz3	i-T51D-04404	iPholela	B	B	B
i-RU Mz5	i-T51F-04566	i-Boesmans	A	A	A
	i-T51F-04611	iNgwangwane	A	A	A

iThebula 1.10: i-RU Mz1

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja (m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T51B-04421										
B	246.2	224.3	37.34	15.2	65.33	26.5	0.051	0.091	1.233	2.176
i-T51A-04522										
B	43.2	40.8	6.09	14.4	11.2	25.9	0.018	0.022	0.248	0.409
i-T51A-04608										
B	1.6	1.5	0.24	15.5	0.41	26.0	0.0	0.0	0.003	0.007
i-T51A-04551										
B	58.8	54.3	10.08	17.1	17.07	29	0.014	0.033	0.284	0.588
i-T51G-04751										
B	3.0	2.5	0.48	15.9	0.8	26.6	0.0	0.0	0.007	0.014

UMZIMKULU (T5): i-IUA T5-2**i-IUA T5-2 - Umzimkulu Ophakathi kanye Nomngenela woMzimkulwana****iThebula 1.11: i-IUA T5-2****iThebula 1.12**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
MRU MzA	i-T51C-04606		C	C	C
	uMzEWR2i	uMzimkhulu	B	B	B
	i-T51C-04760	uMzimkhulu	uMzEWRi		
RU Mz4	i-T51D-04460	iPholelana	D/E	D	D/E
	i-T51E-04536		C	C	C
	i-T51E-04478	iPholela	uMzEWR9r		
	uMzEWR9r	iPholela	B/C	B/C	B/C
RU Mz5	i-T51F-04566	i-Boesmans	A	A	A
	i-T51F-04611	iNgwangwane	A	A	A

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-Ru Mz6	i-T51F-04674		C	C	C
	i-T51F-04605	iNgwangwane	uMzEWR8r		
	U				
	MzEWR8r	iNgwangwane	C	C	C
	i-T51G-04722	iNdawana	C	C	C
	i-T51J-04747	iNgwangwane	uMzEWR8r		
	i-T51J-04844	iNgwangwane	uMzEWR8r		
i-Ru Mz8	i-T51H-04828	iGungununu	A/B	A/B	A/B
	i-T51H-04846	iLubhukwini	A	A	A
	i-T51H-04808	iGungununu	B	B	B
i-Ru Mz9	i-T51H-04913	iNonginqa	B/C	B/C	B/C
	i-T51H-04923	iMalenge	B/C	B	B
	i-T51H-04884	iGungununu	B/C	B/C	B/C
	i-T51H-04908	iGungununu	B/C	B/C	B/C
i-MRU MzB	i-MzEWR3i	uMzimkhulu	C	B	B
	i-T52C-04960	uMzimkhulu	B	B	B
	i-T52D-04948	uMzimkhulu	C	B	B
i-Ru Mz10	i-T52D-05137	uMzimkhulu	B	B	B
	i-T52B-04947	iCabane	B	B	B
	i-T52C-04880		C	C	C
i-Ru Mz11	i-T52D-05024	iNcalu	B/C	B	B
	i-T52D-05061	uMgodi	B/C	B	B
Ru Mz12	i-T52E-05053	iBisi Engenhla	B/C	B	B
	i-T52F-05104	iBisi Encane	C	C	C
	i-T52F-05190	iMbumba	B/C	B/C	B/C

MRU MzD	i-T52F-05139	iBisi Encane	B	B	B
	i-T52G-05226	uMbumbane	B/C	B/C	B/C
	i-T52G-05171	iBisi	B	B	B
	i-T52H-05244	iMahobe	B/C	B/C	B/C
	i-MzEWR14r	iBisi	B/C	B/C	B/C
	i-T52K-05353	uMzimkhulwana	MzEWR17i		
	i-T52K-05475	iNkondwana	B/C	B/C	B/C
	i-MzEWR17i	uMzimkhulwana	B	B	B

iThebula 1.13: i-MRU MzA ne-MZEWR2i

i-EWR	i-TEC (i-REC)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja (m³/s)	
								u-90%	u-70%	u-90%	u-70%
i-MRU MzA MZEWR2i	B	260.8	190.5	32.6	21.5	64.1	24.6	0.329	0.84	1.911	5.317

iThebula 1.14: i-RU Mz4

i-REC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T51E-04536										
C	8.6	6.8	1.31	15.1	1.98	22.9	0.003	0.010	0.014	0.045
uMzEWR9r										
B/C	110.3	90	20.7	18.7	31.3	28.4	0.289	0.706	1.1	3.052

iThebula 1.15: uMz6

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T51F-04674										
C	2.8	1.7	0.23	8.1	0.49	17.1	0.0	0.0	0.004	0.008
i-T51F-04621(MzEWR8r)										
C	116.7	102.3	13.6	11.7	25	21.4	0.16	0.371	1.052	2.206
i-T40G-04722										
C	91.1	81.3	11.27	12.4	20.66	22.7	0.008	0.008	0.248	0.54

iThebula 1.16: RU Mz9

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T51H-04913										
B/C	16.7	13.3	2.4	14.6	4.06	24.3	0.008	0.019	0.043	0.090
i-T51H-04923 kanye ne-MRU MzB MZEWR3i										
B	27.2	24.3	30.13	11.5	5.72	21.1	0.000	0.009	0.106	0.174
B	870.5	777.8	172.9	19.9	199.8	23	0.633	1.69	3.308	9.747

iThebula 1.17: i-RU Mz11

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T52C-04880										
C	12.6	7.0	1.46	11.5	2.65	20.9	0.008	0.017	0.023	0.054
i-T52D-05024										
B	4.4	2.7	0.52	11.7	1.09	24.4	0.004	0.011	0.008	0.014
i-T52C-05061										
B	5.4	3.4	0.61	11.2	1.3	23.9	0.007	0.014	0.011	0.016

iThebula 1.17: i-RU Mz11

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T52C-04880										
C	12.6	7.0	1.46	11.5	2.65	20.9	0.008	0.017	0.023	0.054
i-T52D-05024										
B	4.4	2.7	0.52	11.7	1.09	24.4	0.004	0.011	0.008	0.014
i-T52C-05061										
B	5.4	3.4	0.61	11.2	1.3	23.9	0.007	0.014	0.011	0.016

iThebula 1.18: i-RU Mz12

i-EWR	i-TEC (i-REC)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-70%	u-90%	u-70%
i-RU Mz12 MZEWR14i	PES B/C	194.6	160.9	60.7	31.2	83.3	42.8	Akukho			

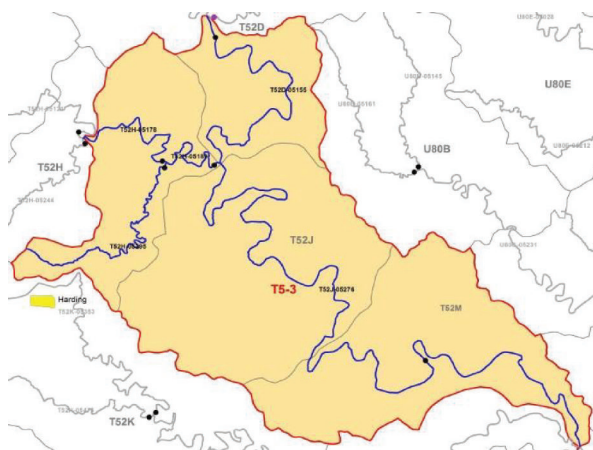
i-T52E-05053	B/C	55.5	43.71	9.33	16.8	14.2	25.6	0.035	0.096	0.137	0.259
i-T52F-05104	C	34.3	22.8	5.41	15.8	8.46	24.7	0.033	0.062	0.117	0.197
i-T52F-05190	B/C	47.3	35.2	9.38	19.8	13.9	29.4	0.041	0.092	0.152	0.259
i-T52F-05139	B	96.1	71.8	21.98	22.9	31.72	33	0.144	0.164	0.497	0.898
i-T52G-05226	B/C	19.2	16.9	3.32	17.3	5.16	26.9	0.026	0.036	0.077	0.129
i-T52G-05171	B	171.2	131.4	36.47	21.3	53.63	31.3	0.372	0.504	0.995	1.395
i-T52H-05244	B/C	9.4	8.9	1.05	11.2	2.17	23	0.008	0.016	0.011	0.025

iThebula 1.19: i-MRU MZ D

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-70%	u-90%	u-70%
i-MRU MZ D MZEWR17i	B (i-REC)	42.5	30	10.13	23.8	12.6	29.6	0.143	0.441	0.295	0.803

UMZIMKULU (T5): i-IUA T5

i-IUA T5-3-UMZIMKULU



iThebula 1.20: i-IUA T5

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-MRU MzC	uMzEWR5i	uMzimkhulu	uMzEWR6i		
	uMzEWR6i i-T52J-05276	uMzimkhulu			
i-Ru Mz13	i-T52H-05295	iMagogo	B	B	B
	i-T52H-05178	iBisi	uMzEWR14r		
	i-T52H-05189	iBisi	uMzEWR14r		

iThebula 1.21: i-MRU MzC ne-MzEWR6i

i-EWR	i-TEC (i-REC)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-60%	u-90%	u-60%
i-MRU MzC uMZEWR6i	A/B	1384	1184	352.9	25.5	417.7	30.2	3.294	13.704	10.514	48.582

iThebula 1.22: RU Mz13

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM))	i-EWR Encane (i- %le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-T52H-05295										
B	5.8	4.8	0.95	16.2	1.56	26.7	0.0	0.0	0.011	0.020

uMKHOMAZI (U1): i-IUA U1-1

i-IUA U1-1 – INDAWO YASENTABENI YOMKHOMAZI



iThebula 1.23: I-IUA U1-1

I-RU	I-SQ	uMFULA	I-PES	I-REC	I-TEC
i-RU Mk4	i-U10A-04115	iLotheni	A/B	A/B	A/B
	i-U10A-04202	iNhlatimbe	B	B	B
	i-U10A-04301	iLotheni	B	B	B
i-MRU uMkhomazi A	i-U10B-04239	uMkhomazi	B	B	B
	i-U10B-04337	uMkhomazi	B	B	B
i-RU Mk1	i-U10B-04274	iNhlangezi	A	A	A
	i-U10B-04251	uMkhomazi	A	A	A
i-RU Mk2	i-U10B-04343	uMqatsheni	B	B	B
i-RU Mk3	i-U10C-04347	uMkhomazana	B	B	B
i-RU MK5	i-U10D-04199	iNzinga	A	A	A
	i-U10D-04222	i-Roodraai	B	B	B
	i-U10D-04298	iNzinga	B/C	B	B
i-MRU uMkhomazi B.1	i-U10D-04349	uMkhomazi	i-MK_I_EWR1US		
	i-U10D-04434	uMkhomazi			

iThebula 1.24: i-RU MK4

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM))	i-EWR Encane (i- %le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo i(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10A-04202										
B	43.5	43.5	8.33	19.1	12.73	29.3	0.026	0.066	0.22	0.372
i-U10A-04301										
B	208.9	208.2	41.22	19.7	62.34	29.8	0.135	0.439	0.93	1.977

iThebula 1.25: i-RU MK2

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM))	i-EWR Encane (i- %le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10B-04343										
B	37.3	36.3	7.57	20.3	11.34	30.4	0.022	0.061	0.186	0.353

iThebula 1.26: i-RU MK3

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM))	i-EWR Encane (i- %le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10C-04347										
B	96.1	91.7	18.79	19.6	28.51	29.7	0.086	0.117	0.444	0.793

iThebula 1.27: i-MRU U10D

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10D-04222										
B	13.4	12.9	2.70	20.2	4.05	30.4	0.013	0.023	0.061	0.136
i-U10D-04298										
B	82.4	80.4	15.91	19.3	24.3	29.4	0.076	0.182	0.388	0.711

uMKHOMAZI (U1): i-IUA U1-2

i-IUA U1-2 – UMKHOMAZI OPHAKATHI



iThebula 1.28: i-IUA U1-2

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-MRU uMkhomazi B.2	i-U10E-04380 Mk_I_EWR1US	uMkhomazi	C	C	C
	i-U10F-04528US	uMkhomazi	MK_I_EWR1US		
i-MRU uMkhomazi B.3	i-U10F-04528DS Mk_I_EWR1DS	uMkhomazi	C	C	C
i-RU6	i-U10F-04560	Luhane	B/C	B/C	B/C
i-RU7	i-U10G-04388	Elands	C	B	B
	i-U10G-04405		C	C	C
	i-U10G-04473	Elands	C	B	B

iThebula 1.29: i-MRU uMKHOMAZI MK_I_EWR1 US (U10E-04380) (KUHLANGANISA i-U10F-04528US) B.3 ne-MK_I_EWR1DS (i-U10F-04528DS)

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane	Ukugeleza okuncane kwe-EWR (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-60%	u-90%	u-60%
i-MK_I_EWR1	REC: C	683.17	660.72	123.707	18.1	186.07	27.2	0.89	1.42	4.13	5.54
i-MK_I_EWR1 (DS of dam)	REC: C	683.17	660.72	206.9	30.2	540.5	79.1	2.339	2.82	16.12	35.22

iThebula 1.30: i-RU MK

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10F-04560										
C	36.3	33.1	4.86	13.4	8.28	22.8	0.02	0.053	0.034	0.157

iThebula 1.31: i-RU MK7

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10G-04388										
B	18.9	16.6	3.95	20.9	6.01	31.8	0.016	0.031	0.029	0.136
i-U10G-04405										
C	8.7	6.9	1.52	17.5	2.32	26.8	0.005	0.015	0.01	0.05
i-U10D-04473										
B	67.1	59.5	12.88	19.2	20.51	30.5	0.048	0.111	0.089	0.272

uMKHOMAZI (U1): IUA U1-3**i-IUA U1-3 -INDAWO I-GORGE YOMKHOMAZI iThebula 1.32: IUA U1-3**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU8	i-U10H-04576	iTholeni	B	B	B
i-RU9	i-U10H-04666	iNgudwini	B/C	B	B
	i-U10H-04708	iNgudwini	B	B	B
	i-U10H-04729	uMzalanyoni	C	C	C
i-AMRU uMkhomazi B.4	i-U10H-04638	uMkhomazi	Mk_I_EWR2		
	i-U10H-04675	uMkhomazi			
i-MRU uMkhomazi C	i-U10J-04679 Mk I EWR2	uMkhomazi	B	B	B
i-RU10	i-U10J-04721	iPateni	B	B	B

iThebula 1.33: i-RU MK 8

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10H-04567										
B	14.1	10.7	2.57	18.3	4.15	29.5	0.012	0.019	0.036	0.061

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10H-04666										
B	20.4	13.2	2.48	12.2	4.57	22.5	0.002	0.002	0.045	0.073
i-U10H- 04708										
C	47.2	35.6	7.02	14.9	12.4	26.3	0.007	0.012	0.122	0.204
i-U10H-04729										
B	23.0	19.6	4.4	19.1	7.01	30.5	0.016	0.038	0.031	0.093

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u- 90%	u- 60%	u-90%	u-60%
uMK_I_EWR2	i-REC: B	890.91	838.35	151.2	14.2	241.5	35.8	1.551	2.869	5.991	10.488
	B	890.91	838.35	262.1	29.4	677	76	2.743	2.37	18.125	46.35

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10J-04721										
B	6.2	4.0	1.43	22.9	2.13	34.3	0.008	0.017	0.014	0.045

i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU11	i-U10J-04820	iLufafa	B/C	B	B
i-MRU uMkhomazi D	i-U10J-04807	uMkhomazi	uMk_I_EWR3		
	i-U10J-04799	uMkhomazi			
	i-U10J-04833	uMkhomazi			
	i-U10K-04838	uMkhomazi			
	i-U10M-04746 Mk I EWR3	uMkhomazi	C	C	
i-RU12	i-U10J-04713	uMkobeni	C	B	B
	i-U10K-04842	iNhlavini	B	B	B

i-U10K-04899	iXobho	C/D	C/D	C/D
i-U10K-04946	iNhlabeni	B/C	B/C	B/C

iThebula 1.38: i-RU MK 11

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U10J-04820										
B	26.1	21.5	4.26	16.3	6.94	26.6	0.023	0.04	0.057	0.094

iThebula 1.39: i-MRU yo-uMKHOMAZI D ne-MK_I_EWR3

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i- MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-60%	u-90%	u-60%
i-MK_I_EWR3	i-REC: C	1068.6	983.23	223.42	21.2	332.8	31.1	1.532	2.203	5.589	7.668
	C	1068.6	983.23	308.6	28.9	813.5	76.1	2.743	3.383	19.944	48.722

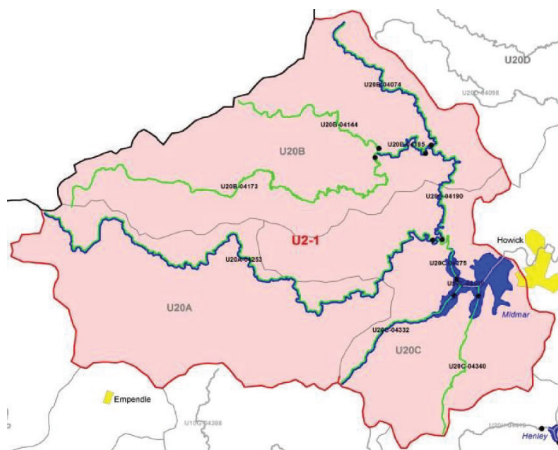
iThebula 1.40: i-RU MK12

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/ s)		
							u-90%	u-60%	u-90%	u-60%	
i-U10J-04713											
B	13.9	11.7	2.86	20.6	4.34	31.5	0.012	0.022	0.024	0.10 2	
i-U10K-04842											
B	40.2	29.0	6.19	15.4	10.48	26.1	0.012	0.045	0.086	0.28 6	
i-U10K-04899											
C/D	19.1	11.8	2.05	10.7	3.61	18.9	0.0	0.0	0.014	0.08	
i-U10K-04946											
B/C	6.7	4.5	0.99	14.8	1.65	24.8	0.0	0.0	0.012	0.03 4	

uMNGENI(U2): i-IUA U2-1

i-IUA U2-1 - uMNGENI: ISIZIBA SEDAMU I-MIDMAR

iThebula 1. 41: i-IUA U2-1



i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-MRU uMnA	i-U20A-04253 Mg_R_EWR1	uMngeni	C/D	C/D	C/D
	i-U20C-04275	uMngeni	Uxhumene ne-Mg_R_EWR1		
i-RU uMn1	i-U20B-04074	iNdiza	B/C	B	B
	i-U20B-04144 us IBT	iMpofana	C	C	C
	i-U20B-04173	i-Lions	C	B	B
i-RU uMn2	i-U20B-04144 ds IBT	iMpofana	C	C	C
	i-U20B-04185	i-Lions	B/C	B	B/C
	i-U20C-04190	i-Lions	B/C	B	B
i-RU uMn3	i-U20C-04332	iGqishi	B/C	B	B
	i-U20C-04340	iNguklu	C	C	C

iThebula 1.42: i-MRU uMnA ne-Mg_R_EWR1

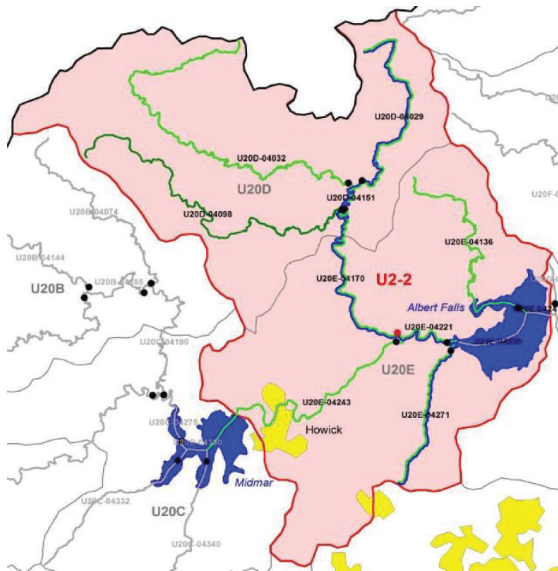
i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane	Ukugeleza okuncane kwe-EWR (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-60%	u-90%	u-60%
i-Mg_R_EWR1	REC: C/D	79.22	60.46	8.013	10.1	17.221	21.7	0.016	0.098	0.179	0.327

iThebula 1.43: i-RU uMn1

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20B-04074										
B	12.3	10.9	2.73	22.2	3.89	31.7	0.011	0.035	0.016	0.068
i-U20B-04173										
B	39.8	34.3	6.64	16.6	10.11	25.4	0.029	0.142	0.036	0.235

iThebula 1.44: i-RU uMn3

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20C-04332										
B	15.9	12.9	3.48	21.9	4.91	30.9	0.004	0.023	0.019	0.113
i-U20C-04340										
C	7.0	5.9	1.35	19.3	1.94	27.7	0.004	0.012	0.011	0.039

uMNGENI(U2): i-IUA U2-2**IDAMU I-MIDMAR KUYA EDAMINI I-ALBERT FALLS****iThebula 1.45: i-IUA U2-2**

i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU uMn4	i-U20D-04029	i-Yarrow	B/C	B	B
	i-U20D-04098	iKusane	D	D	D
i-MRU KarA	i-U20D-04032	i-Karkloof	C	C	C
i-MRU KarB	i-U20D-04151	i-Karkloof	B/C	B	B
i-MRU KarC	i-U20E-04170 Mg_R_EWR3	i-Karkloof	B	B	B
i-MRU uMnB	i-U20E-04221	uMngeni	B/C	B/C	B/C
	i-U20E-04243 Mg_I_EWR 2	uMngeni	C	C	C
i-RU uMn5	i-U20E-04136	iNculwane	C	C	C
	i-U20E-04271	i-Doring Spruit	B/C	B/C	B/C
i-RU uMn6	i-U20F-04011	i-Sterkspruit	C/D	C/D	C/D
	i-U20F-04095 in IUA U2-3	iMpolweni	C/D	C/D	C/D

iThebula 1.46: i-RU uMn4 (i-U20D-04029, 04098)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20D-04029										
B	11.6	7.8	2.02	17.5	3.18	27.5	0.006	0.021	0.018	0.063
i-U20D-04098										
D	16.9	12.5	2.28	13.5	3.48	20.7	0.003	0.012	0.011	0.065

iThebula 1.47: i-MRU KarA (i-U20D-04032)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%

i-U20D-04032										
C	29.72	26.54	n/a	n/a	13.10	44	0.056	0.009	0.010	0.001

*Kulinganiselwe nge-Mn_R_EWR3 (Umfula i-Karkloof, IsimoSemvelo B).

iThebula 1.48: i-MRU KarB (i-U20D-04151)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
U20D-04151										
B	42.22	35.19	n/a	n/a	18.61	44	0.079	0.012	0.015	0.002

*Kulinganiselwe nge-Mn_R_EWR3 (Umfula i-Karkloof, IsimoSemvelo B).

iThebula 1.49: i-KarC ne-Mg_R_EWR3

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-60%	u-90%	u-60%
Mg_R_EWR3	REC: B	70.11	56.5	19.111	27.3	30.489	43.5	0.032	0.245	0.203	0.758

iThebula 1.50: i-MRU uMnB ne-Mg_I_EWR2

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u-90%	u-60%	u-90%	u-60%
i-Mg_I_EWR2	REC: C	228.19	105.4	33.5	14.7	45.61	20.0	0.46	0.81	0.45	0.99

iThebula 1.51: i-RU uMn5

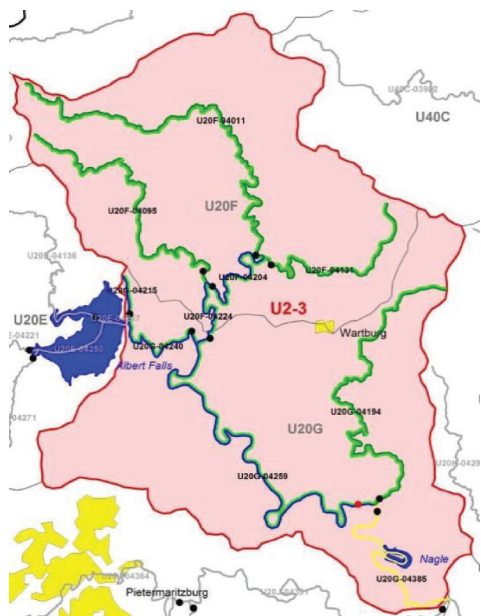
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20E-04136										
C	14.2	10.7	1.88	13.3	3.19	22.5	0.004	0.016	0.016	0.064
i-U20E- 04271										
B/C	8.1	6.5	1.60	19.7	2.36	29.1	0.006	0.022	0.014	0.041

iThebula 1.52: i-RU uMn6

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20F-04011										
C/D	30.3	13.4	3.33	11.0	5.61	18.5	0.004	0.036	0.017	0.096
I=U20F-04095										
C/D	17.6	7.8	1.44	8.2	2.83	16.1	0.004	0.017	0.011	0.074

uMNGENI (U2): i-IUA U2-3

i-IUA U2-3: ISIZIBA uMNGENI SEDAMU I-ALBERT FALLS KUYA EKHULANGANENI iThebula 1.53: i-IUA U2-3 KOMNSUNDUZE



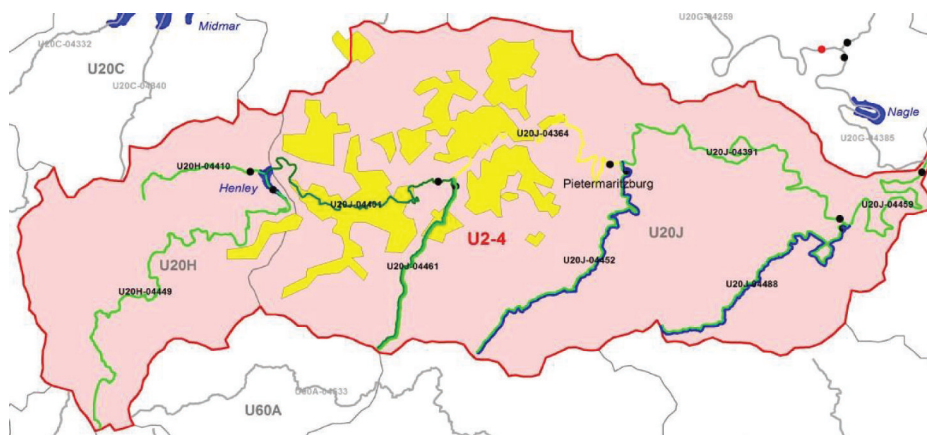
i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU uMn7	i-U20F-04131	uMhlalane	C/D	C/D	C/D
	i-U20F-04204	i-Sterkspruit	B/C	B/C	B/C
	i-U20F-04224	iMpolweni	B/C	B/C	B/C
	i-U20G-04194	uMkabela	C/D	C/D	C/D
	i-U20G-04215	Umfula i-Cramond	B/C	B/C	B/C
i-MRU uMnC	i-U20G-04240	uMngeni	B/C	B/C	B/C
	i-U20G-04259	uMngeni	B/C	B	B/C
	i-U20G-04385	uMngeni	B/C	B/C	B/C

iThebula 1.54: Ukucaciswa Kwemvelo kwe-RU uMn7

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20F-041131										
C/D	14.5	6.3	1.52	10.5	2.59	17.9	0.004	0.015	0.011	0.06
i-U20F-04204										
B/C	48.8	22.4	5.67	11.6	9.61	19.7	0.012	0.065	0.053	0.185
i-U20F-04224										
B/C	70.7	33.6	9.85	13.9	15.43	21.8	0.015	0.101	0.073	0.336
i-U20G-04194										
C/D	19.9	16.8	1.6	8.0	3.4	17.1	0.005	0.016	0.013	0.081
i-U20G-04215										
B/C	0.8	0.7	0.09	11.2	0.17	21.0	0.0	0.0	0.0	0.002

iThebula 1.55: i-MRU uMnC

i-SQ	Umfula	i-PES	i-REC	Imfuneko	i-TEC
i-U20G-04259	uMngeni	B/C	B	Alukho ushintsho olungabakhona ekusebenzeni.	B/C

uMNGENI (U2): i-IUA U2-4**i-IUA U2-4: uMNSUNDUZE****iThebula 1.56: i-IUA U2-4**

i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU uMn8	i-U20H-04410	iNqabeni	C	C	C
	i-U20J-04452	iMpushini	B/C	B	B
	i-U20J-04461	i-Slang Spruit	C/D	C/D	C/D
	i-U20J-04488	uMshwati	B/C	B	B
i-MRU Duze A	i-U20H-04449	uMnsunduze	C	C	C
i-MRU Duze B	i-U20J-04364	uMnsunduze	D/E	D	D
	i-Mg_R_EWR4	uMnsunduze	D	D	D
i-MRU Duze C	i-U20J-04391	uMnsunduze	C	C	C
i-MRU Duze D	i-U20J-04459	uMnsunduze	C	B	C

iThebula 1.57: i-RU uMn8

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20H-04410										
C	5.5	5.5	0.93	16.8	1.39	25.1	0.007	0.014	0.011	0.023
i-U20J-04452										
B	6.8	5.4	1.43	21.2	2.08	30.7	0.017	0.020	0.013	0.030
i-U20J-04461										
C/D	4	3.8	0.58	14.5	0.91	22.8	0.003	0.013	0.004	0.016
i-U20J-04488										
B	7.3	5.9	1.58	21.8	2.27	31.3	0.017	0.026	0.016	0.034

* Ukugeleza okwenzelwa umthetho ka-B /C

iThebula 1.58: i-MRU DUZE A

i-REC							Mandulo (m³/s)	Nhlolanja(m³/s)
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(i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Inggikithi Yokugeleza kwe-EWR (i-MCM)	Inggikithi ye-EWR (i- %le- nMAR)	u-90%	u-60%	u-90%	u-60%
i-U20H-04449										
C	32	32	4.85	15.0	7.51	23.3	0.022	0.056	0.097	0.172

i-MRU DUZE B ne-Mg_R_EWR4 (U20J-0364) (kuhlanganisa i-U20J-04401)

iThebula 1.59: i-MRU Duze C (i-U20J-04391)

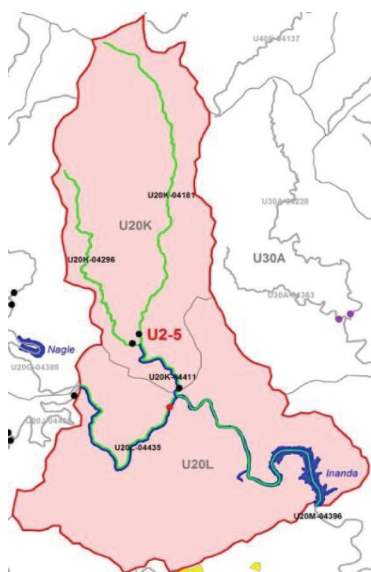
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Inggikithi Yokugeleza kwe-EWR (i-MCM)	Inggikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20J-04391										
C	85.3	101.4	14.78	17.3	22.52	26.4	0.162	0.306	0.307	0.438

iThebula 1.60: i-MRU Duze D (i-U20J-04459)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Inggikithi Yokugeleza kwe-EWR (i-MCM)	Inggikithi ye-EWR (i- %le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20J-04459										
C	94.7	109.4	16.51	17.4	25.26	26.7	0.167	0.309	0.321	0.483

uMNGENI (U2): i-IUA U2-5

**IUA U2-5: IPHAKATHI LOMFULA
uMNGENI LOKUHLANGANA
KOMNSUNDUZE KUYA EDAMINI
INANDA**



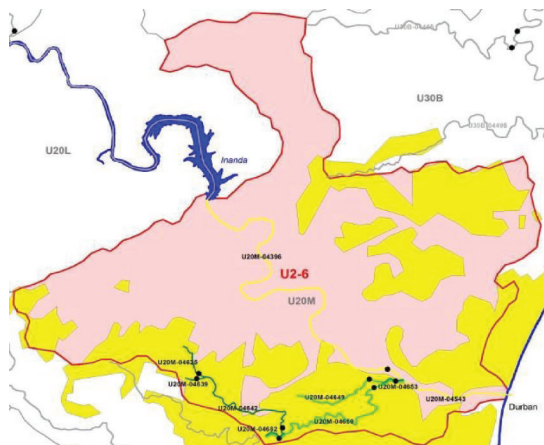
iThebula 1.61: i-IUA U2-5

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC	i-PR
i-MRU uMn D	i-U20L-04435 Mg I EWR 5	uMngeni	D	D	D	3
	i-U20M-04396	uMngeni (isiziba sedamu Inanda)				
i-RU uMn9	i-U20K-04181	uMqeku	C	C	C	2
	i-U20K-04296	iTholeni	C	B/C	B/C	
	i-U20K-04411	uMqeku	B/C	B	B	

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
								u- 90%	u- 60%	u-90%	u-60%
i-Mg_I_EWR5	REC: D	583.7	245.3	123.47	21.20	141.81	24.3	0.856	2.017	1.655	2.477

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20K-04181										
C	19.5	17.7	4.03	20.7	5.76	29.5	0.022	0.069	0.016	0.083
i-U20K-04296										
B/C*	4.2	3.8	0.59	14.1	0.93	22.4	0.003	0.007	0.001	0.009
i-U20K-04411										
B*	26.2	23.8	5.29	20.1	7.78	29.6	0.034	0.11	0.029	0.133

**IUA U2-6: INGAPHANSI LEDAMU I-INANDA
KUYA ESIZALWENI**



i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU uMn10	i-U20M-04625		D	D	D
	i-U20M-04639	i-Palmiet	D	D	D
	i-U20M-04642	i-Palmiet	D	D	D
	i-U20M-04649	iMbongokazi	C	C	C
	i-U20M-04653	i-Palmiet	C/D	C/D	C/D
	i-U20M-04659	i-Palmiet	C	C	C
	i-U20M-04682		C/D	C/D	C/D

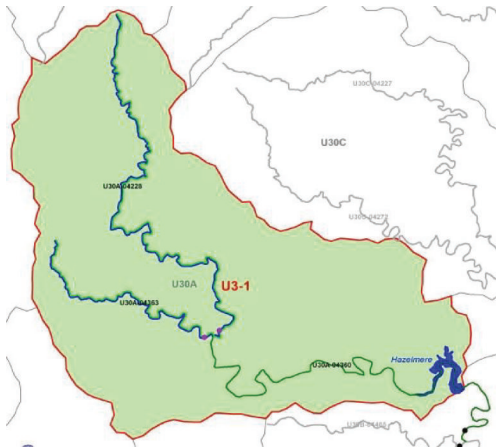
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U20M-04642										
D	1.6	1.6	0.24	15.1	0.39	24.2	0.005	0.005	0.001	0.006

i-U20M-04649										
C	0.5	0.8	0.08	10.5	0.15	19.5	0.000	0.001	0.001	0.002
i-U20M-04653										
C/D	3.9	3.9	0.49	12.8	0.87	22.4	0.003	0.012	0.004	0.012
i-U20M-04659										
C	2.9	2.9	0.57	19.6	0.88	30.1	0.003	0.009	0.004	0.015

UMDLOTI (U3) kanye NOGU OLUSENYAKATHO (i-U3 kanye ne-U5)

i-IUA 3-1 (i-RU U3.1): uMDLOTI

i-IUA U3-1 – ISIZIBA SOMDLOTI WEDAMU I-HAZELMERE

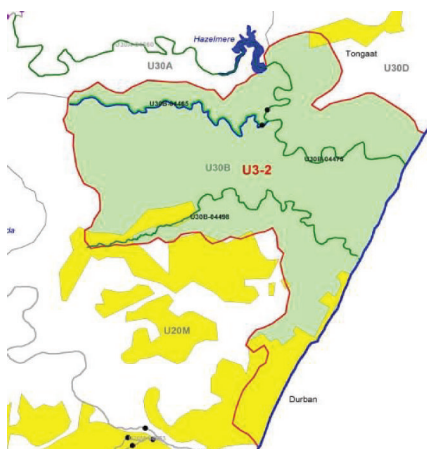


iThebula 1.66: IUA 3-1

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC	i-PR
i-RU U3.1	i-U30A-04228	uMdloti	B/C	B	B	3WQ
	i-U30A-04363	uMwangal a	B/C	B	B	
	i-U30A-04360	uMdloti	D	D	D	

iThebula 1.67: i-U30A

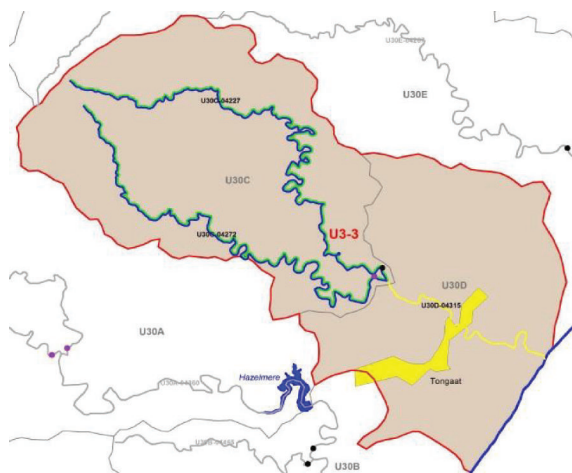
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U30A-04228										
B*	29.8	29	4.97	16.7	8.42	28.3	0.03	0.075	0.067	0.133
i-U30A-04363										
B	10.6	10.3	1.87	17.6	3.10	29.2	0.024	0.027	0.025	0.049
i-U30A-04360										
D	73.9	61.4	6.4	8.7	12.66	17.1	0.031	0.126	0.064	0.2

i-IUA 3-2 (i-RU U3.2):**i-IUA U3-2 – i-BLACK MHLASHINI****iThebula 1.68: i-IUA U3-2**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU U3.2	i-U30B-04465	i-Black Mhlashini	B/C	B/C	B/C

iThebula 1.69: i-U30B

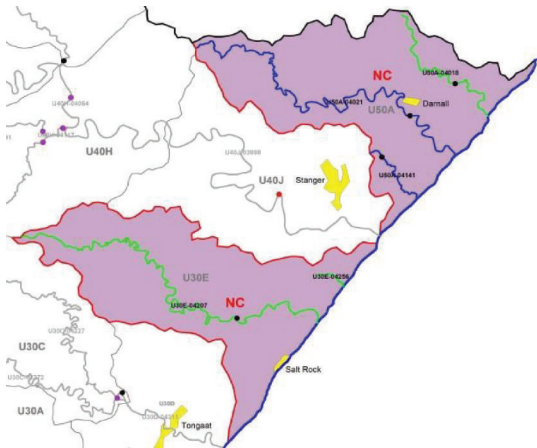
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U30B-04465										
B/C	5.5	5.4	1.01	18.5	1.63	29.7	0.005	0.014	0.012	0.031

IUA 3-3 (RU U3.3): uTHONGATI**IUA U3-3 –UTHONGATI****iThebula 1.70: i-RU U3.3**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC	i-PR
i-RU U3.3	i-U30C-04227	uThongathi	B/C	B/C	B/C	2
	i-U30C-04272	iMona	B/C	B	B/C	

iThebula 1.71: i-U30C

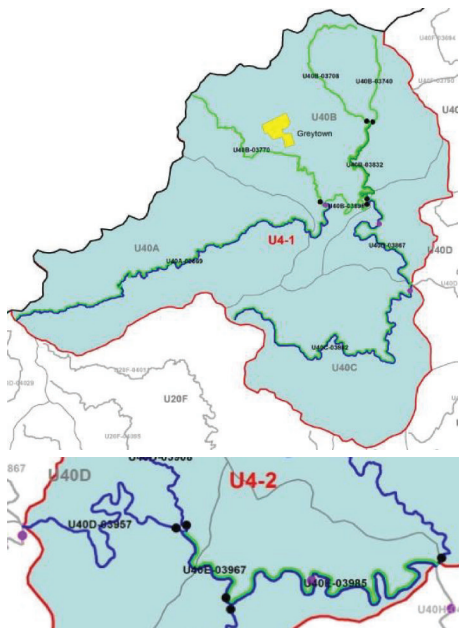
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugelez a kwe- EWR (i- MCM)	Ingqikithi (i-%le- nMAR)	Mandulo		Nhlolanja	
							u-90%	u-60%	u-90%	u-60%
i-U30C-04227										
B/C	23.8	23.3	2.72	11.4	5.36	22.6	0.008	0.027	0.013	0.05
i-U30C-04272										
B	17.1	16.8	1.95	11.4	3.88	22.6	0.009	0.017	0.012	0.041

i-IU NCC**i-IUA NCC - IQOQO ELISOGWINI
OLUSENYAKATHO****iThebula 1.72: RU NC**

i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU NC.1	i-U30E-04207	uMhlali	C	C	C
	i-U50A-04018	iZinkwazi	B/C	B/C	B/C
i-RU NC.2	i-U50A-04021	iNonoti	B/C	B/C	B/C
	i-U50A-04141	uMdlotane	B/C	B/C	B/C

iThebula 1.73: i-U30E

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U30E-04207										
C	33.2	32.0	4.58	13.8	8.52	25.6	0.01	0.028	0.027	0.152
i-U50A-04018										
B/C	11	10.7	2.62	23.8	3.95	35.9	0.015	0.035	0.022	0.063
i-U50A-04021										
B/C	30.5	26.0	3.66	12	7.31	23.9	0.018	0.033	0.028	0.083

UMVOTI (U4): i-IUA U4-1 no-U4-2 (ISIGCEME SOMFULA UMVOTI)**i-IUA U4-1 no-U4-2 (uMVOTI KUPHELA)****iThebula 1.74: i-IUA U4-1 kanye no-U4-2**

i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-MRU Heyns A	i-U40B-03770 Mv I_EWR1	i-Heinespruit	C	C	C
i-MRU uMvoti A	i-U40A-03869	uMvoti	B/C	B	B
i-RU Mv 1	i-U40B-03708	i-Intinda	C	C	C
	i-U40B-03740	uMvozana	C	C	C
	i-U40B-03832	uMvozana	C/D	C/D	C/D
i-RU MV 2	i-U40C-03982	iKhamanzi	B/C	B	B
i-MRU uMvoti B	i-U40B-03896	uMvoti	i-Mv_I_EWR2		
	i-U40D-03867	uMvoti			
	i-U40D-03957	uMvoti			
	i-U40E-03967	uMvoti			
	i-U40E-03985	uMvoti			

iThebula 1.75: i-MRU HEYNS A ne-MV_I_EWR1

i-EWR	i-TEC (i-REC)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le-nMAR)	Mandulo (m³/s)		Nhlolanja (m³/s)	
								u-90%	u-60%	u-90%	u-60%
i-U40B-03770 Mv_I_EWR1	C	17.36	7.08	3.164	18.2	4.847	27.9	0.030	0.037	0.067	0.093

iThebula 1.76: i-MRU uMVOTI A

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo (m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U40A-03869										
B	52.1	26.6	10.06	19.3	13.75	26.4	0.054	0.083	0.179	0.727

iThebula 1.77: i-RU Mv1

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U40B-03708										
C	8.2	2.3	0.54	6.6	1.24	15.2	0.003	0.003	0.014	0.018
i-U40B-03740										
C	4.7	1.2	0.27	5.8	0.68	14.5	0.003	0.003	0.005	0.007
i-U40B-03832										
C/D	22.4	6.1	1.74	7.8	2.62	11.7	0.004	0.008	0.037	0.095

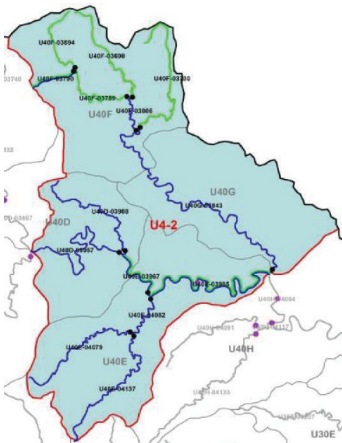
iThebula 1.78: i-RU Mv2

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo		Nhlolanja	
							u-90%	u-60%	u-90%	u-60%
i-U40C-03982										
B	32.0	15.7	5.02	15.7	7.59	23.7	0.029	0.068	0.079	0.147

iThebula 1.79: i-MRU uMvoti B (i-U40B-03896, U40D-03867, 03957, U40E-03967, 03985)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo		Nhlolanja	
							u-90%	u-60%	u-90%	u-60%
i-U40B-039896										
C	70.93	34.75	n/a	n/a	17.86	25	0.081	0.031	0.013	0.007
i-U40D-03867										
B	96.60	41.79	n/a	n/a	24.36	25	0.110	0.042	0.019	0.010
i-U40D-03957										
B	146.04	72.67	n/a	n/a	36.53	25	0.169	0.061	0.029	0.015
i-U40E-03967										
B/C	161.62	87.66	n/a	n/a	40.25	24.9	0.189	0.064	0.034	0.017
i-U40E-03985										
B	199.90	119.39	n/a	n/a	49.53	24.8	0.230	0.072	0.043	0.020

Zonke izindawo zicatshangelwe nge-Mv_I_EWR2 (IsimoSemvelo C). Qaphela ukuthi kunokuhlanganisa lezi zindawo zomfula ne-Mv_I_EWR2, zihlukanisiwe njengoba zitholakala esizibeni sedamu elisikiselwe futhi ngaphansi kweSigaba 42 azikwazi ukuhlanganiswa.

uMVOTI (U4): i-IUA U4-2 (IMINGENELA YOMFULA UMOVOTI)**i-IUA U4-2 (IMINGENELA KUPHELA):
UKUFINYELELA OKUPHAKATHI KOMVOTI****iThebula 1.80: IUA U4-2**

i--RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
RU MV3	i-U40D-03908	uMtize	B	B	B
RU MV 4	i-U40E-04079	iFaye	B	B	B
	i-U40E-04082	iSikoto	B	B	B
	i-U40E-04137	iSikoto	B	B	B
RU Mv 5	i-U40F-03690	i-Potspruit	C	C	C
	i-U40F-03694	iHlimbitwa	C	C	C
	i-U40F-03730	iCubhu	C	C	C
	i-U40F-03769	iHlimbitwa	C	C	C
	i-U40F-03790	iNseleni	B/C	B/C	B/C
	i-U40F-03806	iHlimbitwa	B	B	B
RU Mv 6	i-U40G-03843	iHlimbitwa	B	B	B

iThebula 1. 81: i-RU Mv3 (i-U40D-03908)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U40D-03908										
B	7.6	7.3	1.57	20.5	2.46	32.2	0.012	0.021	0.017	0.040

iThebula 1.82: i-RU Mv4

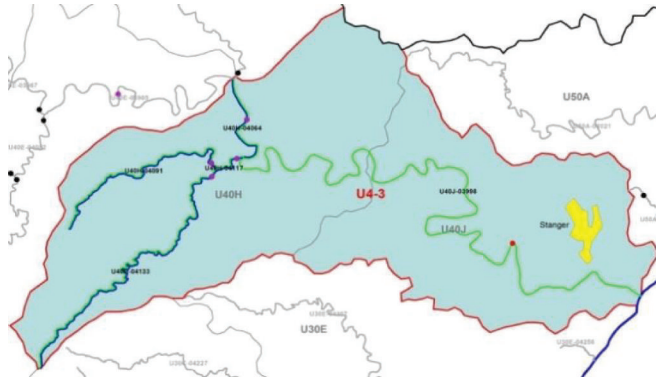
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U40E-04079										
B	13.4	10.7	2.25	16.9	3.81	28.5	0.014	0.020	0.039	0.077
i-U40E-04082										
B	32.2	25.9	5.84	18.2	9.57	29.8	0.019	0.041	0.093	0.218
i-U40E-04137										
B	15.4	12.4	2.89	18.8	4.66	30.3	0.008	0.017	0.042	0.098

iThebula 1.83: i-RU Mv5

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U40F-03690										
C	4.7	1.5	0.85	18.3	1.04	22.3	0.004	0.008	0.008	0.020
i-U40F-03694										
C	5.1	1.7	0.75	14.5	0.99	19.2	0.006	0.008	0.012	0.021
i-U40F-03730										
C	4.9	1.6	0.70	14.3	0.95	19.5	0.004	0.008	0.007	0.018
i-U40F-03769										
C	11.0	3.9	1.82	16.6	2.41	21.9	0.015	0.023	0.02	0.057
i-U40F-03790										
B/C	1.3	0.7	0.21	16.8	0.33	25.7	0.001	0.001	0.002	0.004
i-U40F-03806										
B	17.9	6.6	3.71	20.7	4.44	24.8	0.023	0.039	0.052	0.135

iThebula 1.84: i-RU Mv6 (i-U40G-03843)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U40G-03843										
B	64.6	51.3	13.3	20.6	20.34	31.5	0.118	0.196	0.214	0.414

uMVOTI (U4): i-IUA U4-3**i-IUA U4-3 – UKUFINYELELA OKUNGEZANSI KOMVOTI****iThebula 1.85: i-IUA U4-3**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-MRU uMvoti C	i-U40H-04064 Mv_I_EWR2	uMvoti	C	C	C
i-MRU uMvoti C i-MRU uMvoti D	i-U40J-03998	uMvoti	uMvoti_I_EWR2		
i-RU MV 7	i-U40H-04091	iPambela	B/C	B	B
	i-U40H-04117	iNsuzze	B/C	B	B
	i-U40H-04133	iNsuzze	B/C	B	B

iThebula 1.86: MRU MVOTI C WITH MV_I_EWR2 (U40H-04064)

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m ³ /s)		Nhlolanja (m ³ /s)	
								u-90%	u-60%	u-90%	u-60%
i-U40H-04064 Mv_I_EWR2	C	273.96	168.84	39.525	14.4	58.056	21.2	0.174	0.402	0.622	1.336
i-U40H-04064 Mv_I_EWR2	C (Sc 42)	273.96	156.1	63.3	24.1	156.1	57	0.724	0.869	1.169	1.189

iThebula 1.87: i-MRU uMVOTI C no-D (i-U40J-03998)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U40H-04091										
B	13.2	13.2	2.05	15.6	3.43	26	0.012	0.021	0.017	0.04
i-U40H-04117										
B	29.8	29.8	5.0	16.9	8.22	27.6	0.014	0.020	0.039	0.077
i-U40H-04133										
B	15.7	15.7	2.66	17	4.34	27.6	0.019	0.041	0.093	0.218

uMLAZI (U6)**i-IUA U6-1 uMLAZI ONGENHLA****iThebula 1.88: i-IUA U6-1**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU U6.1	i-U60A-04533	uMlazi	C	C	C
	i-U60B-04614	Mkuzane	C/D	C/D	C/D
	i-U60C-04555	uMlazi	C/D	C/D	C/D
i-RU U6.2	i-U60C-04556	i-Sterkspruit	D	D	D
i-RU U6.3	i-U60C-04613	iWekeweke	C	C	C

iThebula 1.89: i-RU U6.1 (i-U60A-04533, 04614, 04555)

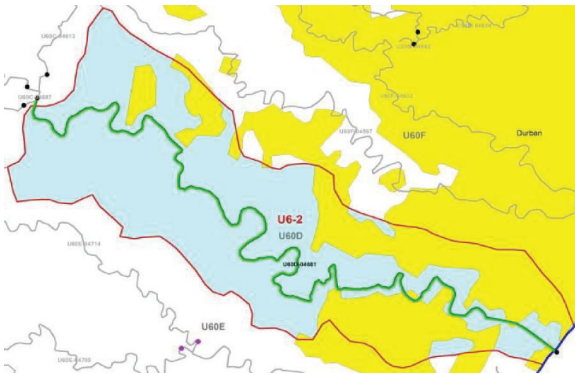
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U60A-04533										
C	33.2	19.4	5.44	16.4	7.95	23.9	0.015	0.023	0.033	0.191
i-U60B-04614										
C/D	8.5	3.1	1.54	18.1	1.86	21.9	0.012	0.019	0.02	0.039
i-U60C-04555										
C/D	76.1	38.8	12.29	16.2	17.32	22.8	0.019	0.019	0.02	0.303

iThebula 1.90: i-RU U6.2 (i-U60C-04556)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U60C-04556										
D	9.3	8.7	1.50	16.1	2.25	24.2	0.005	0.015	0.007	0.023

iThebula 1.91: i-RU U6.3 (i-U60C-04613)

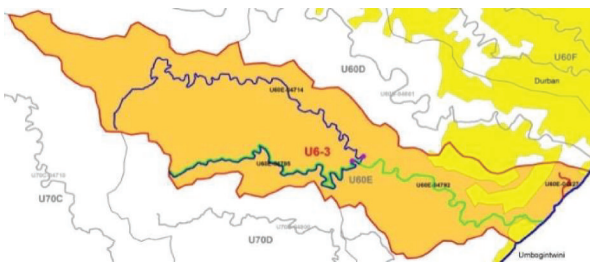
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U60C-04613										
C	1.8	1.1	0.2	11.1	0.38	21.1	0.002	0.002	0.002	0.003

i-IUA U6-2**i-IUA U6-2 LOWER uMLAZI****iThebula 1.92: i-IUA U6**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU U6.4	i-U60D-04661	uMlazi	C/D	C/D	C/D

iThebula 1.93: i-RU U6.4 (i-U60D-04661)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U60D-04661										
C/D	101.6	65.2	17.19	16.9	25.13	24.7	0.097	0.293	0.137	0.461

i-IUA U6-3**i-IUA U6-3 iMBOKODWENI****iThebula 1.94: i-IUA U6-3**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU U6.5	i-U60E-04714	iMbokodweni	B	B	B
	i-U60E-04795	iBivane	B/C	B	B
i-RU U6.6	i-U60E-04792	iMbokodweni	C	C	C

iThebula 1.95: i-U60E-04714/U60E-04795

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U60E-04714										

B	16.8	15.7	2.97	17.6	4.81	28.6	0.02	0.046	0.041	0.082
i-U60E-04795										
B	6.6	6.1	1.17	17.8	1.89	28.8	0.009	0.017	0.014	0.038

iThebula 1.96: Ukucaciswa Kwemvelo kwe-RU U6.6 (i-U60E-04792)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U60E-04792										
C	26.1	24.3	4.4	16.8	7.04	26.9	0.015	0.059	0.028	0.102

iLOVU (U7): i-IUA U7-1**i-IUA U7-1 UMFULA ILOVU****iThebula 1.97: i-IUA U7-1**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-MRU iLovu A	i-U70A-04609	iLovu	B/C	B/C	B/C
	i-U70A-04685	iLovu	C	C	C
i-RU L1	i-U70A-04599	i-Serpentine	C	C	C
	i-U70A-04618		C	C	C
i-MRU iLovu B	i-U70B-04655	iLovu	C/D	C/D	C/D
	i-U70C-04710	uMgwahumbe	C	C	C
i-RU L2	i-U70C-04724		C	C	C
	i-U70C-04732		C	C	C
i-MRU iLovu D	i-U70C-04859	iLovu	B/C	B/C	B/C
	Lo_R_EWR1		B/C	B/C	B/C
i-RU L3	i-U70D-04800	iNungwane	B/C	B/C	B/C

iThebula 1.98: i-MRU iLOVU A (i-U70A-04609, 04685)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U70A-04609										
B/C	17.81	10.51	n/a	n/a	6.36	36	0.027	0.009	0.005	0.002
i-U70A-04685										
C	1.66	1.01	n/a	n/a	0.59	36	0.003	0.001	0.000	0.000

iThebula 1.99: i-RU L1 (i-U70A-04599, 04618)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U70A-04599										
C	10.4	6.0	1.68	16.1	2.57	24.6	0.012	0.023	0.024	0.048
i-U70A-04618										
C	3.5	2.2	0.59	17.1	0.89	25.8	0.002	0.009	0.009	0.014

iThebula 1.100: i-MRU iLOVU B (i-U70B-04655)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U70B-04655										
C/D	61.24	37.21	n/a	n/a	21.11	34.5	0.094	0.028	0.021	0.009

iThebula 1.101: L2 (U70C-04710, 04724, 04732)

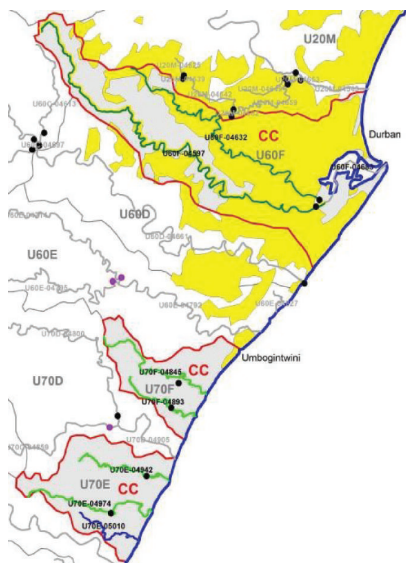
i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U70C-04710										
C	22.2	20.2	5.28	23.8	7.35	33.1	0.04	0.106	0.06	0.115
i-U70C-04724										
C	0.1	0.1	Sincane kakhulu isiziba ukusebenzisa Amakhompuyutha.							
i-U70C-04732										
C	0.0	0.0	Sincane kakhulu isiziba ukusebenzisa Amakhompuyutha.							

iThebula 1.102: i-U70C-EWR 2

i-EWR	i-TEC	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza kwe-EWR okuncane (i-MCM)	Ukugeleza kwe-EWR okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m ³ /s)		Nhlolanja (m ³ /s)	
								u-90%	u-60%	u-90%	u-60%
i-U70C-04859 Lo_R_EWR2	B/C	87.76	73.42	20.044	22.8	33.231	37.9	0.142	0.189	0.359	0.533

iThebula 1.103: i-RU L3 (i-U70D-04800)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane (i-MCM)	Ukugeleza okuncane (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U70D-04800										
B/C	15.2	9.3	3.28	21.6	4.34	28.6	0.021	0.048	0.027	0.07

IQOQO ELIPHAKATHI (CENTRAL CLUSTER (CC))**i-IUA CC (IQOQO ELISOGWINI)****iThebula 1. 104: i-IUA CC**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU CC	i-U60F-04597	uMhlatuzana	D/E	D	D/E
	i-U60F-04632	Umbilo	D	D	D
i-RU CC 1	i-U70E-04942	Umsimbazi	C	C	C
	i-U70E-04974	uMgababa	C	C	C
i-RU CC 2	i-U70F-04845	aManzimtoti	C	C	C
	i-U70F-04893	Umfula Omncane aManzimtoti	C	C	C

iThebula 1.105: i-RU U6 CC (i-U60F-04597, 04632)

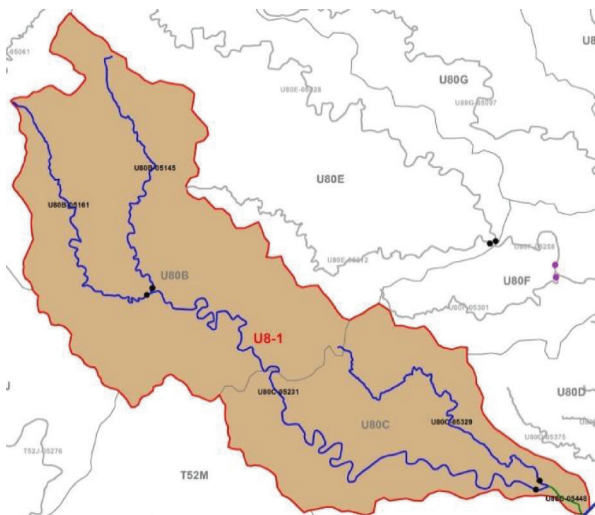
i-REC (i-EWR)		i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
								u-90%	u-60%	u-90%	u-60%
	I-U60F-04597										
D/E		Izinkinga zezinga lamanzi kuphela									
	I-U70F-04632										
D		12.7	19.4	1.82	14.4	2.9	22.9	0.006	0.014	0.007	0.03

iThebula 1.106: i-RU U7 CC.1 (i-U70E-04942, 04974)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U70E-04942										
C	7.9	7.7	1.38	17.5	2.10	26.7	0.009	0.018	0.016	0.033
i-U70E-04974										
C	5.0	4.9	1.03	20.7	1.49	29.9	0.004	0.015	0.011	0.025

iThebula 1.107: i-RU U7 CC.2 (i-U70F-04845, 04893)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U70F-04845										
C	4.7	4.6	0.69	14.5	1.2	25.3	0.003	0.01	0.006	0.018
i-U70F-04893										
C	1.4	2.4	0.16	11.3	0.29	20.5	0.001	0.001	0.001	0.003

i-IUA U8-1**i-IUA 8-1 uMZUMBE****iThebula 1.108: i-IUA 8-1**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC
i-RU U8-1	i-U80B-05145	iMzumbe	B	B	B
	i-U80B-05161	uMhlabatshane	B	B	B
	i-U80C-05231	uMzumbe	B	B	B
	i-U80C-05329	Kwa-Malukaka	B	B	B

iThebula 1.109: i-RU 8.1 (i-U80B-05145, 05161, U80C-05231, 05329)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80B-05145										
B	7.9	6.4	1.86	23.6	2.74	34.9	0.013	0.022	0.024	0.059
i-U80B-05161										
B	8.8	8.1	2.12	24.1	3.11	35.4	0.02	0.031	0.021	0.054
i-U80C-05231										
B	47.9	44.7	10.70	22.4	16.59	34.7	0.071	0.21	0.159	0.329
i-U80C-05329										
B	9.4	9.1	2.19	23.3	3.33	35.4	0.014	0.02	0.021	0.051

i-U8-2**i-IUA 8-2 uMTWALUME****iThebula 1.110: i-IUA 8-2**

i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC	i-PR
i-RU U8 2	i-U80E-05028	uMtvalume	C	B	C	2
i-RU U8 3	i-U80E-05212	iQuha	B	B	B	2
	i-U80F-05258	uMtvalume	B/C	B	B	
	i-U80F-05301	uMngeni	B/C	B	B	

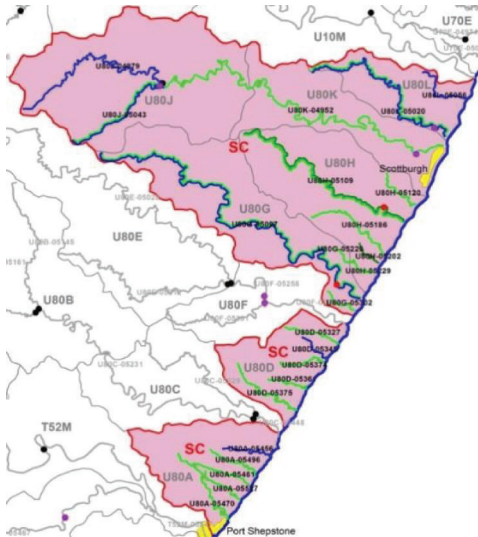
iThebula 1.111: i-U80E

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le-nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le-nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80E-05028										
C	27.8	18.1	3.91	14.1	6.08	21.9	0.024	0.058	0.058	0.108

iThebula 1.112: U8.3 (U80E-05212, U80F-05258, 05301)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80E-05212										
B	11.2	10.6	3.01	26.8	4.3	38.4	0.014	0.034	0.022	0.054
i-U80F-05258										
B*	42.6	32.2	5.88	13.8	10.27	24.1	0.082	0.165	0.132	0.182
i-U80F-05301										
B	7.2	7.1	1.30	18	2.11	29.1	0.011	0.017	0.012	0.029

i-IUA i-SC ESENINGIZIMU YASOGWINI



i-RU	i-SQ	Umfula	i-PES	i-REC	i-TEC	i-PR
i-RU SC 3	i-U80G-05097	iFafa	B/C	B	B	2
i-RU SC 4	i-U80H-05109	uMzinto	C/D	C	C	2
i-RU SC 5	i-U80J-04979	iMpambanyoni	B	B	B	2
	i-U80J-05043	iNdonyane	B/C	B	B/C	
i-RU SC 6	i-U80K-04952	iMpambanyoni	C	B	C	2
i-RU SC 7	i-U80L-05020	aMahlongwa	B/C	B	B/C	2

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80G-05097										
B	46.4	38.6	8.76	18.9	14.02	30.2	0.038	0.113	0.134	0.216

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80H-05109										
C/D	22.9	19.9	3.17	13.9	5.75	25.1	0.01	0.031	0.019	0.05

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80J-0497										
B	12.6	10.2	3.09	24.5	4.55	36.1	0.015	0.034	0.023	0.057

i-U80J-05043										
B/C	6.5	5.7	1.29	19.7	2.04	31.3	0.012	0.017	0.011	0.022

iThebula 1.117: i-SC 6 (i-U80K-04952)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80K-04952										
C	58.0	53.1	5.79	10	11.72	20.2	0.084	0.164	0.148	0.178

iThebula 1.118: i-RU SC 7 (i-U80L-05020)

i-REC (i-EWR)	i-nMAR (i-MCM)	i-pMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le- nMAR)	Ingqikithi Yokugeleza kwe-EWR (i-MCM)	Ingqikithi (i-%le- nMAR)	Mandulo(m³/s)		Nhlolanja(m³/s)	
							u-90%	u-60%	u-90%	u-60%
i-U80L-05020										
B/C	10.5	10.1	2.55	24.3	3.73	35.6	0.014	0.04	0.019	0.058

2. INGXYENYE YEZINGA LAMANZI ASEMHLABENI EZINGOSINI ZE-EWR**UMTAMVUNA (T4): ISIZIBA SOMFULA****iThebula 2.1: i-EWR Mt_R_EWR1: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A/B)**

Umfula: uMtamvuna		i-PES: Isigaba A/B
Ingosi yokuqapha: i-T4H001Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u-≤24 kuya ku-30 mS/m.
i-pH	Amaphesenti angu-5 kumele abe u-5.9 kuya ku-6.5 futhi amaphesenti angu-95 kumele abe ngu-7.6 kuya ku-8.0.	Amaphesenti angu-5 kumele abe u-< 6.1 kanye no-> 6.3, futhi amaphesenti angu-95 kumele abe u-< 7.8 no-> 8.2
Izinga lokushisa ^(b)	Ukuchezuka okuncane ezingeni lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.

Umfula: uMtamvuna		i-PES: Isigaba A/B
Ingosi yokuqapha: i-T4H001Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Umoyampilo oncibikile ^(b)	Amaphesenti angu-5 eminingwane kumele abe $u \geq 7.5$ mg/L.	Amaphesenti angu-5 eminingwane kumele abe $u < 7.8$ kuya ku-7.5 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka
Ukungcola ^(b)	Ushintsho olulinganisiwe ekusetshenzisweni kwesiziziba komhlaba okuholela emiqingweni emikhulu ngokwemvelo yesikhashana yenzika kanye nokungcola.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka
Izakhi		
Ingqikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe $u \leq 0.7$ mg/L.	Amaphesenti angu-50 eminingwane kumele abe $u \leq 0.55$ kuya ku-0.7 mg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe $u \leq 0.020$ mg/L.	Amaphesenti angu-50 eminingwane kumele abe $u \leq 0.016$ kuya ku-0.020 mg/L.
Izinguquko Zokuphendula		
i-Chl- <i>a</i> phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe $u < 15$ µg/L.	Amaphesenti angu-50 eminingwane kumele abe $u < 12$ kuya ku-15 µg/L.
i-Chl- <i>a</i> periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe $u \leq 21$ mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe $u \leq 17$ kuya ku-21 mg/m ² .
Ubuthi ^(b)		
Ubuthi	$u-95$ wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 eqa Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

(a) Kuzokhiqizwa ngokusebenzisa IThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindelekile.

(b) Ibingekho imininingwane yalokhu kuhlolwa. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.

UMZIMKULU (T4): ISIZIBA SOMFULA

Umthombo: Ukuhlolwa kwezinga lamanzi kwaqhutshwa njengengxenywe Yocwaningo Lwezinsizakalo Zamanzi Zesiziba Zomfula uMzimkhulu: Ucwano Lwezimfuneko Zemvelo Yasemfuleni (DWA, 2011c). Ukucaciswa Kwemvelo kanye nama-TPC kuthathelwa kwi-DWA (2011c).

iModeli: i-PAI model (i-DWAF, 2008b).

Abasebenzisi: IUkunisela; ukuguguleka.

Inkinga yezinga lamanzi: Izakhi, usawoti, ukungcola.

iThebula 2.2: i-MZEW2i: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A)

Umfula: Umzimkulu		i-PES: Isigaba A
Ingosi yokuqapha: i-T5H004Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-30 mS/m emaphesentini angu-95.	Amaphesenti angu-95 akufanele eqe u-24 mS/m.
i-pH	i-pH engu-6.5 kuya ku-8.8: amaphesenti angu-5 nangu-95 kumele angaweli ngaphandle kwalobu bubanzi.	Amaphesenti angu-5 akufanele abe ngaphansi kuka-6.7 futhi amaphesenti angu-95 akumele abe ngaphezu kuka-8.6.
Ukungcola	Ukungcola kufanele kungavezi ngaphezu koshintsho oluncane ezimeni zemvelo (okungukuthi, kufanele kungeqi isigaba 1 sokulinganisa sezigaba ze-DWS ezizenzakalelayo).	Njengoba kungekho mininingwane etholakalayo, akuqaliswe ukuqapha okuyisisekelo kwalephalamitha ukusungula i-TPC.
Izakhi		
Ingqikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	u-0.25 mg/L emaphesentini angu-50.	Inani lamaphesenti angu-50 akufanele leqe u-0.2 mg/L
i-PO ₄ -P	u-0.027 mg/L emaphesentini angu-50.	Amaphesenti angu-50 enani akufanele eqe u-0.022 mg/ L

Qaphela – Ngenxa yemininingwane enganele, Ukucaciswa Kwemvelo kanye nama-TPC kungeke kwanqunyelwa ubuthi kanye nezinguquko zokuphendula. Izinkathazo zokusetshenziswa kwemininingwane ye-DWS nohlelo lwe-TEACHA nazo ziholele Ekudlulisweni Kukagesi osetshenziswa njengesivumelwano sikasawoti wezinto ezingaphili. Usawoti alulindelekile ukuba inking kulesi siziba. Ayikho imininingwane yezinga lokushisa ekhona, yize imithelela emikhulu yokushisa iqashelwa manje esizibeni.

iThebula 2.3: i-MzEWR17i: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A/B - B)

Umfula: Umzimkulu		i-PES: A/B – Isigaba B
Ingosi yokuqapha: T5H0124Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	Ayikho imininingwane ekhona yalengxenye yomfula. Amanani kodwa kufanele angeqi esimeni esizenzakalelayo soshintsho oluncane kuya kolulinganiselwe emvelweni– okungukuthi u-55 mS/m kumaphesenti ang-95.	i-TPC ebalwe ngokuqondene namathebula amisiwe — u-44 mS/m. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka
i-pH	Ayikho imininingwane ekhona yalengxenye yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuya kolulinganisiwe kusuka kolwemvelo, okungukuthi, i-pH engu-5.9 kumaphesenti angu-5 kanye nengu-8.8 kumaphesenti angu-95.	i-TPC ebalwe ngokuqondene namathebula amisiwe — u-6.25 kumaphesenti ang-5 kanye no-8.36 kuma[hesenti angu-95. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ukungcola	Ayikho imininingwane eyisisekelo ekhona yalengxenye yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuya kolulinganisiwe kusuka kolwemvelo (njengoba kuhlolwa kumathebula amisiwe).	Azikho izigaba zamanani ezikhona zale nguquko– i-TPC ayilona usizo ukuthi ingahlolwa. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Ingqikithi ye-Nitrogen yezinto ezingaphili (Total	Ayikho imininingwane eyisisekelo ekhona yalengxenye yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuva kolulinganisiwe kusuka	i-TPC ebalwe ngokuqondene namathebula amisiwe – u-0.56 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.

Umfula: Umzimkulu		i-PES: A/B – Isigaba B
Ingosi yokuqapha: T5H0124Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Inorganic Nitrogen (TIN-N))	kolwemvelo – okungukuthi, u-0.7 mg/L kumaphesenti angu-50.	
i-PO ₄ -P	Ayikho imininingwane eyisisekelo ekhona yalengxenywe yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuya kolulinganisiwe kusuka kolwemvelo – okungukuthi u-0.015 mg/L kumaphesenti angu-50.	i-TPC ebalwe ngokuqondene namathebula amisiwe – u-0.012 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.

Qaphela – Ngenxa yokungabi bikho kwemininingwane yalengxenywe yomfula, izimo eziyisisekelo kule ngosi azikwazanga ukuhlolwa futhi ngalokho Ukucaciswa Kwemvelo kanye nama-TPC akuzange kukwazi ukunqunywa. Amanani abalwe ngokuqondene nethebula lokubala okumisiwe ngokwangakho konke ukubala kwe-PES kule ngosi.

iThebula 2.4: i-MRU MzC (uMzEWR6i): Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A/B)

Umfula: Umzimkulu		i-PES: Isigaba A/B
Ingosi yokuqapha: ayikho		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	Ayikho imininingwane ekhona yalengxenye yomfula. Amanani kodwa kufanele angeqi esimeni esizenzakalelayo soshintsho oluncane kuya kolulinganiselwe emvelweni– okungukuthi u-55 mS/m kumaphesenti ang-95.	i-TPC ebalwe ngokuqondene namathebula amisiwe — u-44 mS/m. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka
i-pH	Ayikho imininingwane ekhona yalengxenye yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuya kolulinganisiwe kusuka kolwemvelo, okungukuthi, i-pH engu-5.9 kumaphesenti angu-5 kanye nengu-8.8 kumaphesenti angu-95.	i-TPC ebalwe ngokuqondene namathebula amisiwe — u-6.25 kumaphesenti ang-5 kanye no-8.36 kuma[hesenti angu-95. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ukungcola	Ayikho imininingwane eyisisekelo ekhona yalengxenye yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuya kolulinganisiwe kusuka kolwemvelo (njengoba kuhlolwa kumathebula amisiwe).	Azikho izigaba zamanani ezikhona zale nguquko– i-TPC ayilona usizo ukuthi ingahlolwa. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Inqikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Ayikho imininingwane eyisisekelo ekhona yalengxenye yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuya kolulinganisiwe kusuka kolwemvelo – okungukuthi, u-0.7 mg/L kumaphesenti angu-50.	i-TPC ebalwe ngokuqondene namathebula amisiwe – u-0.56 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
i-PO ₄ -P	Ayikho imininingwane eyisisekelo ekhona yalengxenye yomfula. Amanani nokho kufanele angeqi onqenqemeni olumisiwe loshintsho oluncane kuya kolulinganisiwe kusuka kolwemvelo – okungukuthi u-0.015 mg/L kumaphesenti angu-50.	i-TPC ebalwe ngokuqondene namathebula amisiwe – u-0.012 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.

Qaphela – Ngenxa yokungabi bikho kwemininingwane yalengxenywe yomfula, izimo eziyisisekelo kule ngosi azikwazanga ukuhlolwa futhi ngalokho Ukucaciswa Kwemvelo kanye nama-TPC akuzange kukwazi ukunqunywa. Amanani abalwe ngokuqondene nethebula lokubala okumisiwe ngokwangakho konke ukubala kwe-PES kule ngosi.

uMKHOMAZI (U1): ISIZIBA SOMFULA

Umtombo: Ukuhlolwa kwezinga lamanzi kwaqhutshwa njengengxenye Yocwaningo Yenqolobane Ephakeme ye-WMA ka-2012 kuya ku-2015 yoMvoti kuya ku-Umzimkhulu (i-DWS, 2014B). Imininingwane yomthombo ihlanganisa umnqimba we-GE wolwazi lokusetshenziswa komhlaba, oluvela Emanzini ase-Umgeni. **Uhlobo:** uhlobo i-PAI (i-DWAF, 2008b). **Abasebenzisi:** Enye yezolimo; ukuguguleka okukhulu. **Inkinga yezinga lamanzi:** Ukungcola.

iThebula 2.5: i-MRU uMkhomazi B.2: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A/B)

Umfula: uMkhomazi		i-PES: Isigaba A/B
Ingosi yokuqapha: i-RMK002 noma i-U1H005Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u-≤24 kuya ku-30 mS/m.
i-pH	Amaphesenti angu-5 kumele abe u-5.9 kuya ku-6.5 futhi amaphesenti angu-95 kumele abe ngu-7.6 kuya ku-8.0.	Amaphesenti angu-5 kumele abe u-< 6.1 kanye no-> 6.3, futhi amaphesenti angu-95 kumele abe u-< 7.8 no-> 8.2
Izinga lokushisa ^(b)	Ukuchezuka okuncane ezingeni lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti angu-5 eminingwane kumele abe u-≥ 7.5 mg/L.	Amaphesenti angu-5 eminingwane kumele abe u-7.8 kuya ku-7.5 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka
Ukungcola ^(b)	Ushintsho lokugcola luhlobene nezinguqulo ezincane ezenziwe abantu. Kulindeleke okunye ukunqwabelana kwezindawo zokuhlala.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Inggikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.25 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.2 kuya ku-0.25 mg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.015 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.012 kuya ku-0.015 mg/L.
Izinguquko Zokuphendula		
i-Chl-a phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-<15 µg/L.	Amaphesenti angu-50 eminingwane kumele abe u-<12 kuya ku-15 µg/L.
i-Chl-a periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-≤ 12 mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe u-≤ 10 kuya ku-12 mg/m ² .
Ubuthi		

Umfula: uMkhomazi		i-PES: Isigaba A/B
Ingosi yokuqapha: i-RMK002 noma i-U1H005Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
i-Ammonia (NH ₃ -N)	u-95 wamaphesenti eminingwane kumele ube u≤ 0.044 mg/L.	u-50 wamaphesenti eminingwane kumele ube u-0.035 kuya ku-0.044 mg/L.
i-Mercury	u-95 wamaphesenti eminingwane kumele ube u≤ 0.001 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.000 8 kuya ku-0.001 mg/L.
Obunye ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 ega Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

- a) Kuzokhiqizwa ngokusebenzisa IThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindlekile.
- b) Ibingekho iminingwane yalokhu kuhlolwa. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.

iThebula 2.6: MRU uMkhomazi C: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A/B)

Umfula: uMkhomazi		i-PES: Isigaba A/B
Ingosi yokuqapha: i-RMK004		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u-≤24 kuya ku-30 mS/m.
i-pH	Amaphesenti eminingwane angu-5 kanye nangu-95 kumele aqale kusuka ku-6.5 kuya ku-8.0.	Amaphesenti eminingwane angu-5 kanye nangu-95 kumele abe u-< 6.7 kanye no-> 7.8.
Izinga lokushisa ^(b)	Izinga lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti angu-5 eminingwane kumele abe u-≥ 7.5 mg/L.	Amaphesenti angu-5 eminingwane kumele abe u-7.8 kuya ku-7.5 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka
Ukungcola ^(b)	Ushintsho lokugcola luhlobene nezinguqulo ezincane ezenziwe abantu. Kulindeleke okunye ukunqwabelana kwezindawo zokuhlala.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Ingqikithi ye-Nitrogen yezinto	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.25 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.2 kuya ku-0.25 mg/L.

Umfula: uMkhomazi		i-PES: Isigaba A/B
Ingosi yokuqapha: i-RMK004		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
ezingaphili (Total Inorganic Nitrogen (TIN-N))		
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u≤ 0.015 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u≤ 0.012 kuya ku-0.015 mg/L.
Izinguquko Zokuphendula		
i-Chl- <i>a</i> phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u<12 kuya ku-15 µg/L.	Amaphesenti angu-50 eminingwane kumele abe u<12 kuya ku-15 µg/L.
i-Chl- <i>a</i> periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u≤ 10 kuya ku-12 mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe u≤ 10 kuya ku-12 mg/m ² .
Ubuthi		
i-Ammonia (NH ₃ -N)	u-95 wamaphesenti eminingwane kumele ube u≤ 0.073 mg/L.	u-50 wamaphesenti eminingwane kumele ube u-0.058 kuya ku-0.073 mg/L.
Umthofu (amanzi alinganisiwe / anamandla)	u-95 wamaphesenti eminingwane kumele ube u≤ 0.005 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.004 kuya ku-0.005 mg/L.
Obunye ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 eqa Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

- a) Kuzokhiqizwa ngokusebenzisa iThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindelekile.
- b) Ibingekho iminingwane yalokhu kuhlolwa. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.

iThebula 2.7: i-MRU uMkhomazi D: i-Mk_I_EWR2: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A/B)

Umfula: uMkhomazi		i-PES: Isigaba A/B
Ingosi yokuqapha: i-U1H009Q01 noma i-U1H006Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		

Umfula: uMkhomazi		i-PES: Isigaba A/B
Ingosi yokuqapha: i-U1H009Q01 noma i-U1H006Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u- ≤ 24 kuya ku-30 mS/m.
i-pH	Amaphesenti eminingwane angu-5 kanye nangu-95 kumele aqale kusuka ku-6.5 kuya ku-8.0.	Amaphesenti eminingwane angu-5 kanye nangu-95 kumele abe u- < 6.7 kanye no- > 7.8 .
Izinga lokushisa ^(b)	Izinga lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti angu-5 eminingwane kumele abe u- ≥ 7.5 mg/L.	Amaphesenti angu-5 eminingwane kumele abe u-7.8 kuya ku-7.5 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka
Ukungcola ^(b)	Ushintsho lokugcola luhlobene nezinguqulo ezincane ezenziwe abantu. Kulindeleke okunye ukunqwabelana kwezindawo zokuhlala.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ingqikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe u- ≤ 0.25 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u- ≤ 0.2 kuya ku-0.25 mg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u- ≤ 0.015 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u- ≤ 0.012 kuya ku-0.015 mg/L.
Izinguquko Zokuphendula		
i-Chl-a phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u- < 12 kuya ku-15 $\mu\text{g/L}$.	Amaphesenti angu-50 eminingwane kumele abe u- < 12 kuya ku-15 $\mu\text{g/L}$.
i-Chl-a periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u- ≤ 10 kuya ku-12 mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe u- ≤ 10 kuya ku-12 mg/m ² .
Ubuthi		
Obunye ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 eqa Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

a) Kuzokhiqizwa ngokusebenzisa IThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindelekile.

b) Ibingekho iminingwane yalokhu kuhlola. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.

uMGENI (U2): ISIZIBA SOMFULA

Umtombo: Ukuhlolwa kwezinga lamanzi kwaqhutshwa njengengxenye Yocwaningo Yenqolobane Ephakeme ye-WMA ka-2012 kuya ku-2015 yoMvoti kuya ku-Umzimkhulu (i-DWS, 2014B). Imininingwane yomthombo ihlanganisa umnqimba we-GE wolwazi lokusetshenziswa komhlaba, oluvela Emanzini ase-Umgeni.

Uhlobo: uhlobo i-PAI (i-DWAF, 2008b).

Abasebenzisi: Ezolimo; amapulazi ezinkukhu; ubisi; amapulazi ezingulube; ukuqombola izintaba, camping, ukuya kumakamu kanye nokudoba ezindaweni eziphezulu. **Izinkinga zezinga lamanzi:** Izakhi, amagciwane endle /i-E. coli.

iThebula 2.8: i-MRU uMnA: Mg_R_EWR1 Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: A/B)

Umfula: uMngeni		i-PES: Isigaba A/B
Ingosi yokuqapha: i-RMG001		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u-≤24 kuya ku-30 mS/m.
i-pH	Amaphesenti eminingwane angu-5 kumele abe u-6.5 kuya ku-8.0, futhi amaphesenti angu-95 abe u-8.0 kuya ku-8.8.	Amaphesenti eminingwane angu-5 kumele abe u-< 6.3 no-> 7.8, futhi amaphesenti angu-95 abe u-< 8.2 no-> 8.6.
Izinga lokushisa ^(b)	Ukuchezuka okuncane ezingeni lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti eminingwane angu-5 kumele abe u-≥ 7.0 mg/L.	Amaphesenti eminingwane angu-5 kumele abe u-7.2 kuya ku-7.0 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ukungcola ^(b)	Kwahluka ngenani elincane elivela ebubanzini bokungcola kwemvelo; kwamukeleke ukunqwabelana okuncane kwezindawo zasemfuleni.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Ingqikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.7 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.55 kuya ku-0.7 mg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.015 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.012 kuya ku-0.015 mg/L.
Izinguquko Zokuphendula		
i-Chl-a phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-<10 kuya ku-15 µg/L.	Amaphesenti angu-50 eminingwane kumele abe u-8 –kuya ku-10 µg/L.
i-Chl-a periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-≤ 12 kuya ku-12 mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe u-10 kuya ku-12 mg/m ² .
Ubuthi		
i-Ammonia (NH ₃ -N)	u-95 wamaphesenti eminingwane kumele ube u-≤ 0.1 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.08 kuya ku- 0.1 mg/L.
i-Ammonia (NH ₃ -N)	u-95 wamaphesenti eminingwane kumele ube u-≤ 0.1 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.08 kuya ku-0.1 mg/L.
Obunye ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 eqa Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c)

Umfula: uMngeni		i-PES: Isigaba A/B
Ingosi yokuqapha: i-RMG001		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
		noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

- a) Kuzokhiqizwa ngokusebenzisa IThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindelekile.
- b) Ibingekho imininingwane yalokhu kuhlolwa. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.

iThebula 2.9: i- Mg_R_EWR3: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: B)

Umfula: uMngeni		i-PES: Isigaba B
Ingosi yokuqapha: i-U2H006Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u-≤24 kuya ku-30 mS/m.
i-pH	Amaphesenti eminingwane angu-5 kumele abe u-6.5 kuya ku-8.0, futhi amaphesenti angu-95 abe u-8.0 kuya ku-8.8.	Amaphesenti eminingwane angu-5 kumele abe u-< 6.3 no-> 7.8, futhi amaphesenti angu-95 abe u-< 8.2 no-> 8.6.
Izinga lokushisa ^(b)	Ukuchezuka okuncane ezingeni lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti eminingwane angu-5 kumele abe u-≥ 7.0 mg/L.	Amaphesenti eminingwane angu-5 kumele abe u-7.2 kuya ku-7.0 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ukungcola ^(b)	Kwahluka ngenani elincane elivela ebubanzini bokungcola kwemvelo; kwamukeleke ukunqwabelana okuncane kwezindawo zasemfuleni.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Ingqikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.7 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.55 kuya ku-0.7 mg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.015 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.012 kuya ku-0.015 mg/L.
Izinguquko Zokuphendula		
i-Chl-a phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-<10 µg/L.	Amaphesenti angu-50 eminingwane kumele abe u-8 kuya ku-10 µg/L.

Umfula: uMngeni		i-PES: Isigaba B
Ingosi yokuqapha: i-U2H006Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
i-Chl-a periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-≤21 mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe u-17 kuya ku-21 mg/m ² .
Ubuthi		
Ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 ega Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

- a) Kuzokhiqizwa ngokusebenzisa iThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindelekile.
- b) Ibingekho iminingwane yalokhu kuhlolwa. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.

iThebula 2.10: i-Mg_I_EWR2: Ukucaciswa Kwemvelo kwezinga lamanzi (Isigaba C/D se-PES ne-TEC)

Umfula: uMngeni		i-PES: Isigaba C/D
Ingosi yokuqapha: RMG008		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u-≤24 kuya ku-30 mS/m.
i-pH	Amaphesenti eminingwane angu-5 kumele abe u-6.5 kuya ku-8.0, futhi amaphesenti angu-95 abe u-8.0 kuya ku-8.8.	Amaphesenti eminingwane angu-5 kumele abe u-< 6.3 no-> 7.8, futhi amaphesenti angu-95 abe u-< 8.2 no-> 8.6.
Izinga lokushisa ^(b)	Ukuchezuka okuncane ezingeni lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti eminingwane angu-5 kumele abe u-≥ 7.0 mg/L.	Amaphesenti eminingwane angu-5 kumele abe u-7.2 kuya ku-7.0 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ukungcola ^(b)	Kwahluka ngenani elincane elivela ebubanzini bokungcola kwemvelo; kwamukeleke ukunqwabelana okuncane kwezindawo zasemfuleni.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Inggikithi ye-Nitrogen yezinto	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.85 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.68 kuya ku-0.85 mg/L.

Umfula: uMngeni		i-PES: Isigaba C/D
Ingosi yokuqapha: RMG008		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
ezingaphili (Total Inorganic Nitrogen (TIN-N))		
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.075 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.06 kuya ku-0.075 mg/L.
Izinguquko Zokuphendula		
i-Chl-a phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u- $\leq 20 \mu\text{g/L}$.	Amaphesenti angu-50 eminingwane kumele abe u-16 kuya ku-20 $\mu\text{g/L}$.
i-Chl-a periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u- $\leq 52.5 \text{ mg/m}^2$.	Amaphesenti angu-50 eminingwane kumele abe u-42 kuya ku-52.5 mg/m^2 .
Ubuthi		
i-Ammonia (NH ₃ -N)	u-95 wamaphesenti eminingwane kumele ube u- $\leq 0.1 \text{ mg/L}$.	u-95 wamaphesenti eminingwane kumele ube u-0.08 kuya ku-0.1 mg/L.
i-Aluminium	u-95 wamaphesenti eminingwane kumele ube u- $\leq 0.02 \text{ mg/L}$ (Inani Lemiphumela engamahlalakhona (Chronic Effects Value (CEV)) inani le- $\text{pH} > 6.5$)).	u-95 wamaphesenti eminingwane kumele ube u-0.016 kuya ku-0.020 mg/L.
i-Mercury	u-95 wamaphesenti eminingwane kumele ube u- $\leq 0.000\ 525 \text{ mg/L}$.	u-95 wamaphesenti eminingwane kumele ube u-0.000 42 kuya ku-0.000 525 mg/L.
Obunye ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 eqa Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

a) Kuzokhiqizwa ngokusebenzisa IThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindelekile.

iThebula 2.11: i-Mg_R_EWR4: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC:: E/F)

Umfula: uMnsunduze		i-PES: Isigaba E/F
Ingosi yokuqapha: RMD019		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Electrical Conductivity	The 95 th percentile of the data must be ≤ 55 mS/m.	The 95 th percentile of the data must be 44 – 55 mS/m.

Umfula: uMnsunduze		i-PES: Isigaba E/F
Ingosi yokuqapha: RMD019		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
i-pH	Amaphesenti angu-5 eminingwane kumele abe u-6.5 –kuya ku-8.0, futhi amaphesenti angu-95 abe u-8.0 kuya ku-8.8	Amaphesenti angu-5 eminingwane kumele abe u-< 6.3 no-> 7.8, afuthi amaphesenti angu-95 abe u-< 8.2 no-> 8.6
Izinga lokushisa ^(b)	Kubhekwe noshintsho oluncane kuya kolulinganisiwe ezingeni lokushisa.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti angu-5 eminingwane kumele abe u-≥ 5.0 mg/L.	Amaphesenti angu-5 eminingwane kumele abe u-5.2 kuya ku-5.0 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ukungcola ^(b)	Amazinga okungcola okwandile okubhekwane nakho.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Ingqikithi ye-Nitrogen yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe u-≤ 2.5 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-2.0 kuya ku-2.5 mg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.075 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.06 kuya ku-0.075 mg/L.
Izinguquko Zokuphendula		
i-Chl-a phytoplankton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-<20 µg/L.	Amaphesenti angu-50 eminingwane kumele abe u-16 kuya ku-20 µg/L.
i-Chl-a periphyton ^(b)	Amaphesenti angu-50 eminingwane kumele abe u-≤52.5 mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe u-42 kuya ku-52.5 mg/m ² .
Ubuthi		
i-Ammonia (NH ₃ -N)	u-95 wamaphesenti eminingwane kumele ube u-≤ 0.1 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.08 kuya ku-0.1 mg/L.
i-Aluminium	u-95 wamaphesenti eminingwane kumele ube u-≤ 0.15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.012 kuya ku-0.15 mg/L.
Ithusi ^(c)	u-95 wamaphesenti eminingwane kumele ube u-≤ 0.004 6 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.0037 kuya ku-0.004 6 mg/L.
i-Cadmium ^(c)	u-95 wamaphesenti eminingwane kumele ube u-≤ 0.000 95 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.00076 kuya ku-0.000 95 mg/L.
Umthofu ^(c)	u-95 wamaphesenti eminingwane kumele ube u-≤ 0.005 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-0.004 kuya ku-0.005 mg/L.
Obunye ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 eqa Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

- a) Kuzokhiqizwa ngokusebenzisa IThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindlekile.
- b) Ibingekho iminingwane yalokhu kuhlola. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.
- c) Amandla alingnisiwe (okungukuthi. U-60 kuya ku-119 mg/L we-CaCO₃) (i-DWAF, 2008).

iThebula 2.12: i-Mg_I_EWR5: Ukucaciswa Kwemvelo kwezinga lamanzi kanye nama-TPC (i-PES ne-TEC: C/D)

Umfula: uMngeni		i-PES: Isigaba C/D
Ingosi yokuqapha: i-U2H055Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
Usawoti wezinto ezingaphili ^(a)		
i-MgSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 13 kuya ku-16 mg/L.
i-Na ₂ SO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 20 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 16 kuya ku-20 mg/L
i-MgCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 15 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 12 kuya ku-15 mg/L
i-CaCl ₂	u-95 wamaphesenti eminingwane kumele ube u-≤ 21 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 17 kuya ku-21 mg/L
i-NaCl	u-95 wamaphesenti eminingwane kumele ube u-≤ 45 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 36 kuya ku-45 mg/L
i-CaSO ₄	u-95 wamaphesenti eminingwane kumele ube u-≤ 351 mg/L.	u-95 wamaphesenti eminingwane kumele ube u-≤ 280 kuya ku-351 mg/L
Izinguquko zangokwenyama		
Ukudluliswa Kukagesi	u-95 wamaphesenti eminingwane kumele ube ≤ 30 mS/m.	u-95 wamaphesenti eminingwane kumele ube u-≤24 kuya ku-30 mS/m.
i-pH	Amaphesenti eminingwane angu-5 kumele aqale kusuka ku-6.5 kuya ku-8.0 futhi angu-95 kumele abe ngu-8.0 kuya ku-8.8	Amaphesenti eminingwane angu-5 kumele abe u-< 6.3 kanye no-7.8, amaphesenti angu-95 kumele abe u-8.2 kanye no-8.4.
Izinga lokushisa ^(b)	Izinga lokushisa lemvelo.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Umoyampilo oncibikile ^(b)	Amaphesenti angu-5 eminingwane kumele abe u-≥ 7.0 mg/L.	Amaphesenti angu-5 eminingwane kumele abe u-7.2 kuya ku-7.0 mg/L. Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Ukungcola ^(b)	A small change from present with minor silting of habitats and turbidity loads.	Akuqalwe ukuqapha okuyisisekelo kwalokhu kuguquka.
Izakhi		
Ingqikithi ye- <i>Nitrogen</i> yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe u-≤ 4.0 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-3.2 kuya ku-4.0 mg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u-≤ 0.075 mg/L.	Amaphesenti angu-50 eminingwane kumele abe u-0.06 kuya ku-0.075 mg/L.
Izinguquko Zokuphendula		
Ingqikithi ye- <i>Nitrogen</i> yezinto ezingaphili (Total Inorganic Nitrogen (TIN-N))	Amaphesenti angu-50 eminingwane kumele abe u-<15 µg/L.	Amaphesenti angu-50 eminingwane kumele abe u-12 kuya ku-15 µg/L.
i-PO ₄ -P	Amaphesenti angu-50 eminingwane kumele abe u-≤21 mg/m ² .	Amaphesenti angu-50 eminingwane kumele abe u-16.8 kuya ku-21 mg/m ² .
Ubuthi		
i-Ammonia (NH ₃ -N)	Amaphesenti angu-95 eminingwane kumele abe u-≤ 0.1 mg/L.	Amaphesenti angu-95 eminingwane kumele abe u-0.08 kuya ku-0.1 mg/L.
Obunye ubuthi	u-95 wamaphesenti eminingwane kumele ube ngaphakathi kwe-TWQR njengoba kubekiwe kwi-DWAF (1996c) noma kumkhawulo wesigaba A kwi-DWAF (2008b).	Kulindeleke umthelela uma amaphesenti eminingwane angu-95 eqa Ububanzi Bezinga Lamanzi Elihloliwe (Target Water Quality Range (TWQR)) njengoba kubekiwe kwi-DWAF (1996c) noma kwisilinganiselo esiphakeme

Umfula: uMngeni		i-PES: Isigaba C/D
Ingosi yokuqapha: i-U2H055Q01		
Izilinganiso zezinga lamanzi	Ukucaciswa Kwemvelo	i-TPC
		somkhawulo wesigaba A njengoba kubekiwe kwi-DWAF (2008b).

- a) Kuzokhiqizwa ngokusebenzisa IThuluzi le-TEACHA (uma likhona) uma i-TPC Yokudluliselwa Kukagesi yeqiwe noma ukungcola kukasawoti okulindelekile.
- b) Ibingekho imininingwane yalokhu kuhlolwa. Konke Ukucaciswa Kwemvelo kanye nama-TPC kudinga ukuqinisekiswa ngokuqondene nesahlulelo sesazi.

3. IZIDINGO ZABANTU EZIYISISEKELO

Amafuphi

Ngokuphelele, Izimfuneko ze-BHN zayo yonke i-WMA 11 (zonyaka wocwaningo – 2013) zilinganiselwa ku-12,972,388 m³/ngonyaka wamalitha angu-25 omkhawulo. Ithebula elingezansi linikeza isilinganiso sohlelo lwe-BHN lweesikhathi esizayo.

iThebula 3.1 i-BHNR yemikhawulo yokuhlinzekwa kwamalitha angu-25 eminyakeni ekhethiwe.

Isigaba se-BHNR	Unyaka (2018) (m ³ ngonyaka)	Unyaka (2023) (m ³ ngonyaka)
Amalitha angu-25	14,043,924	15,203,970

Izinhlelo ezingenhla zicabangela ukuthi akukho okunye ukutshalwa kwingqalasizinda yamanzi ehlelekile, okungavamile ukuba inkinga. Empeleni, umuntu kufanele alindele ukuthi ukutshala kwingqalasizinda kuzokwenzeka futhi kwedlule ukwanda kwemvelo komphakathi. Uma lokhu kwenzeka, ngakho-ke ukuncika emithonjeni kuzoncishiswa.

Imiphumela engenihla isetshenziswa kakhulu njengamanani emihlahlandlela ohlelweni lokusebenza. Ngokuqondile kufanele iphathwe njengamavolumu amancane okugeleza komfula, ukuze iqinisekise ezinhlelweni zesikhathi esizayo, esizibeni ngasinye noma kwi-WMA yonke. Lokhu kuzoqinisekisa ukuthi imiphakathi, encike emithonjeni engahlelekile, inikezwa usizo olwanele ukuqinisekisa amalungelo abo eSheduli yokuqala (1).

iThebula 3.2: Izidingo Zabantu Zezinsizakalo Eziyisisekelo Ezilindelekile, kuhlenganisa indlela yamalitha angu-25.

Isiziba sekota	u-m³ ngonyaka we-BHNR (amalitha angu-25)	Isiziba sekota	u-m³ ngonyaka we-BHNR (amalitha angu-25)	Isiziba sekota	u-m³ ngonyaka we-BHNR (amalitha angu-25)
	2018*		2018*		
i-T40A	124 590	U10A	32 851	i-U40A	52 027
i-T40B	105 465	U10B	32 571	i-U40B	86 641
i-T40C	228 913	U10C	25 323	i-U40C	53 540
i-T40D	425 533	U10D	58 169	i-U40D	136 577
i-T40E	434 063	U10E	111 270	i-U40E	255 915
i-T40F	187 713	U10F	114 571	i-U40F	89 954
i-T40G	189 503	U10G	52 459	i-U40G	152 177
i-T51A	7 336	U10H	134 730	i-U40H	389 703
i-T51B	5 547	U10J	112 079	i-U40J	156 768
i-T51C	100 577	U10K	47 060	i-U50A	150 681
i-T51D	7 502	U10L	76 902	i-U60A	28 961
i-T51E	23 259	U10M	198 668	i-U60B	61 536
i-T51F	6 867	U20A	51 402	i-U60C	220 885
i-T51G	9 299	U20B	54 392	i-U60D	451 796
i-T51H	204 433	U20C	54 740	i-U60E	324 617
i-T51J	165 085	U20D	55 369	i-U60F	375 569
i-T52A	165 220	U20E	69 568	i-U70A	18 690
i-T52B	172 365	U20F	86 329	i-U70B	69 539
i-T52C	124 559	U20G	148 179	i-U70C	146 369
i-T52D	343 696	U20H	176 801	i-U70D	146 649
i-T52E	98 370	U20J	574 807	i-U70E	73 300
i-T52F	186 338	U20K	123 468	i-U70F	115 940
i-T52G	180 183	U20L	335 301	i-U80A	59 662
i-T52H	237 293	U20M	961 118	i-U80B	154 860
i-T52J	186 208	U30A	397 934	i-U80C	136 318
i-T52K	120 202	U30B	429 049	i-U80D	127 928
i-T52L	49 340	U30C	164 810	i-U80E	197 370
i-T52M	135 672	U30D	116 556	i-U80F	105 843
		U30E	151 304	i-U80G	135 871
				i-U80H	88 675
				i-U80J	133 242
				i-U80K	89 814
				i-U80L	83 598

*kwakhethwa u-2018, okuwuhlelo lweminyaka emihlanu kusuka ngonyaka wokuqala ukubala kwe-BHN (2013)

4. INGXENYE YAMANZI ANGAPHANSI KOMHLABA YOKUNQUMA INQOLOBANE — INGXENYE YENANI

iThebula 4.1: Okufinqiwe Kwenqolobane (uMvoti kuya Endaweni Yokulawula yo-UMzimkhulu)

Iyunithi Yezinsizakalo Zamanzi Angaphansi Komhlaba	Isiziba	Indawo (km ²)	Ukuvuselela 1 (Mm ³ /a)	Inani labantu2 (izibalo zika- 2011)	Ukugeleza okuyisekelo 3 (Mm ³ /a)	i-EWR_MLF4 (Mm ³ /a)	Inqolobane i- BHN 5 (Mm ³ /a)	Ingqikithi Yenqolobane (Mm ³ /a)	i-% Lokugcina Lokuvuselela
i-GRU 1	T40A	208	16.03	12218	11.01	18.22	0.15	18.37	114.6
	T40B	278	26.67	10342	14.90	9.78	0.26	10.04	37.65
	T40C	237	17.40	22448	9.07	35.78	0.24	36.02	207.01
i-GRU 2	T40D	372	19.25	41730	10.27	8.59	0.51	9.10	47.27
	T40E	485	24.96	42566	14.50	72.03	0.54	72.57	290.75
	T40F	335	25.67	18408	17.83	9.33	0.37	9.70	37.79
	T40G	300	18.15	18583	15.46	8.05	0.57	8.62	47.49
	T51A	327	10.16	719	20.71	48.92	0.00	48.92	481.5
i-GRU 3	T51B	210	12.55	544	12.02	28.11	0.00	28.11	223.98
	T51C	461	33.61	9863	20.92	71.96	0.15	72.11	214.55
	T51D	141	8.67	736	8.69	13.76	0.02	13.78	158.94
	T51E	255	16.19	2281	11.61	25.14	0.12	25.26	156.02
	T51F	306	13.64	673	16.21	21.55	0.00	21.55	158
	T51G	255	23.38	912	12.55	10.61	0.01	10.62	45.42
	T51H	519	27.63	20048	23.25	15.25	0.50	15.75	57
	T51J	265	14.55	16189	11.19	7.21	0.19	7.40	50.86
	T52A	382	20.60	16202	16.63	10.65	0.30	10.95	53.2
	T52B	255	14.71	16903	10.49	13.5	0.37	13.87	94.29
i-GRU 4	T52C	260	11.07	12215	9.69	5.69	0.28	5.97	53.93
	T52D	530	21.60	33704	13.75	131.7	0.41	132.11	611.62
i-GRU 5	T52E	233	13.99	9647	9.95	5.84	0.28	6.12	43.75
	T52F	417	25.04	18273	17.89	25.69	0.25	25.94	103.59
	T52G	221	14.47	17670	9.59	72.75	0.20	72.95	504.15

Iyunitshi Yezinsizakalo Zamanzi Angaphansi Komhlaba	Isiziba	Indawo (km ²)	Ukuvuselel a1 (Mm ³ /a)	Inani labantu2 (izibalo zika- 2011)	Ukugeleza okuyisisekelo 3 (Mm ³ /a)	i-EWR_MLF4 (Mm ³ /a)	Inqolobane i- BHN 5 (Mm ³ /a)	Ingqikithi Yenqolobane (Mm ³ /a)	i-% Lokugcina Lokuvuselela
i-GRU 5	T52H	344	14.99	23270	8.38	3.5	0.63	4.13	27.55
	T52J	367	19.88	18260	10.77	8.47	0.23	8.70	43.76
	T52K	425	19.61	11787	11.64	2.47	0.28	2.75	14.02
	T52L	178	10.28	4838	7.14	6.65	0.06	6.71	65.27
	T52M	313	15.05	13305	11.55	308.93	0.16	309.09	2053.75
i-GRU 6	U10A	418	16.20	3221	34.57	74.1	0.03	74.13	457.59
	U10B	392	14.70	3194	28.20	58.81	0.13	58.94	400.95
	U10C	267	14.79	2483	17.04	21.67	0.03	21.70	146.72
	U10D	337	26.92	5704	19.07	15.96	0.13	16.09	59.77
	U10E	327	17.59	10912	19.54	142.5	0.64	143.14	813.76
	U10F	379	21.12	11235	17.29	28.06	0.50	28.56	135.23
	U10G	353	18.79	5144	17.16	14.94	0.03	14.97	79.67
	U10H	458	23.17	13212	20.26	187.83	0.17	188.00	811.39
	U10J	505	22.87	10991	15.71	216.12	0.17	216.29	945.74
	U10K	364	14.82	4615	8.93	9.51	0.03	9.54	64.37
i-GRU 7	U10L	307	10.05	7541	7.77	7.09	0.09	7.18	71.44
	U10M	280	10.74	19482	9.58	228.94	0.13	229.07	2132.87
	U20A	293	19.24	5041	21.65	8.79	0.02	8.81	45.79
	U20B	353	19.02	5334	19.60	29.17	0.01	29.18	153.42
i-GRU 8	U20C	279	22.00	5368	14.50	20.83	0.43	21.26	96.64
	U20D	338	18.34	5430	18.07	28.22	0.00	28.22	153.87
	U20E	390	21.84	6822	14.72	69.53	0.07	69.60	318.68
	U20F	435	21.42	8466	17.13	16.03	0.29	16.32	76.19
i-GRU 9	U20G	494	23.72	14531	16.29	21.93	0.30	22.23	93.71

i-GRU 9	U20J	678	24.29	56368	21.52	15.42	6.33	21.75	89.54
	U20K	271	13.50	12108	10.15	12.51	0.24	12.75	94.44
	U20L	328	12.13	32881	9.73	3.25	0.80	4.05	33.39
	U20M	360	21.60	94251	14.17	97.45	23.65	121.10	560.65
	U30A	376	20.03	39023	16.03	11.87	0.26	12.13	60.56
i-GRU 10	U30B	222	12.98	42074	9.36	6.47	0.00	6.47	49.85
	U30C	242	13.14	16162	10.38	4.85	0.18	5.03	38.28
	U30D	181	9.36	11430	7.61	3.5	0.09	3.59	38.35
	U30E	291	16.33	14838	12.60	8.24	0.08	8.32	50.95
	U40A	317	22.82	5102	14.70	6.41	0.00	6.41	28.09
i-GRU 11	U40B	388	19.74	8496	11.64	10.39	0.23	10.62	53.8
	U40C	264	12.85	5250	8.46	9.64	0.02	9.66	75.18
	U40D	267	12.85	13393	8.33	9.19	0.21	9.40	73.15
	U40E	318	13.88	25096	10.04	37.29	0.15	37.44	269.74
	U40F	290	14.61	8821	7.95	2.9	0.09	2.99	20.47
i-GRU 12	U40G	253	12.02	14923	8.71	14.44	0.02	14.46	120.3
	U40H	361	15.70	38216	13.86	59.31	0.33	59.64	379.87
	U40J	279	15.25	15373	11.56	39.89	0.10	39.99	262.23
	U50A	302	14.38	14776	13.00	6.7	0.05	6.75	46.94
	U60A	105	7.61	2840	4.57	3.93	0.08	4.01	52.69
i-GRU 13	U60B	316	15.33	6034	9.11	5.92	0.03	5.95	38.81
	U60C	365	14.78	21661	9.86	9.2	1.24	10.44	70.64
	U60D	185	9.70	44305	6.88	1.17	1.06	2.23	22.99
	U60E	280	14.54	31833	10.62	7.02	0.47	7.49	51.51
	U60F	264	17.59	36830	10.78	3.49	11.01	14.50	82.43
Iyunitshi Yezinsizakalo Zamanzi Angaphansi	Isiziba	Indawo (km ²)	Ukuvuselel a1 (Mm ³ /a)	Inani labantu2 (Izibalo zika- 2011)	Ukugeleza okuyisisekelo 3 (Mm ³ /a)	i-EWR_MLF4 (Mm ³ /a)	Inqolobane i- BHN 5 (Mm ³ /a)	Ingqikithi Yenqolobane (Mm ³ /a)	i-% Lokugcina Lokuvuselela
	U60A	105	7.61	2840	4.57	3.93	0.08	4.01	52.69

i-GRU 14	i-U70B	272	14.24	6819	8.57	6.09	0.31	6.40	44.94
	i-U70C	350	14.82	14354	11.74	9.48	0.17	9.65	65.11
	i-U70D	208	17.58	14381	8.42	5.87	0.12	5.99	34.07
	i-U70E	87	4.77	7188	3.94	2.88	0.34	3.22	67.51
	i-U70F	60	3.54	11370	2.68	1.94	0.35	2.29	64.69
	i-U80A	159	9.90	5851	7.73	3.38	0.15	3.53	35.66
i-GRU 15	i-U80B	339	16.48	15186	9.97	5.74	0.40	6.14	37.26
	i-U80C	202	9.65	13368	8.63	5.94	0.14	6.08	63
	i-U80D	121	7.64	12545	5.97	2.64	0.31	2.95	38.61
	i-U80E	415	28.00	19355	13.30	7.9	0.30	8.20	29.29
	i-U80F	137	7.68	10379	5.59	3.71	0.20	3.91	50.91
	i-U80G	261	12.51	13324	10.78	10.89	0.13	11.02	88.09
	i-U80H	244	14.94	8696	11.50	12.63	0.23	12.86	86.08
	i-U80J	371	14.67	13066	12.05	7.25	0.20	7.45	50.78
	i-U80K	184	8.72	8808	7.69	5.25	0.31	5.56	63.76
	i-U80L	108	5.46	8198	4.78	3.24	0.36	3.60	65.93

1) uMvoti kuya Endaweni Yokulawula yo-UMzimkhulu: Ucwango oluphakathi Lwenqolobane Yamanzi Angaphansi Komhlaba (Ndasa 2014).

2) Lapho kungaqinisekisiwe khona, cabangela ukuthi wonke umphakathi wesiziba unakekelwa ngamanzi angaphansi komhlaba.

3) uMvoti kuya Endaweni Yokulawula yo-UMzimkhulu: Ucwango oluphakathi Lwenqolobane Yamanzi Angaphansi Komhlaba (Ndasa 2014).

4) uHughes, D. A., Masingana 2010. I-RESDSS Software, Inguqulelo yesibili (2).

5) Ngokuqondene nokusetshenziswa kwamalitha angu-25 komuntu ngamunye ngosuku.

Ukunqunywa Kwenqolobane Yezinga Lamanzi ngokuphathelene nesigaba 16(1)

Izinga lamanzi angaphansi komhlaba ngesiziba sekota ngasinye lanqunywa ngamasetha eminingwane eyatholakala Ohlelweni Lokulawula Amanzi Lomnyango Wezamanzi Nokuhlazwa. Izinga lamanzi angaphansi komhlaba lachazwa ngokucaciswa kwezinga lamanzi kuThebula 4.2 ngezansi.

iThebula 4.2: Ukucaciswa Kwezinga Lamanzi

iPharamitha Yekhemikhali	Izinhlobonhlobo Zenhloso Yezinga Lamanzi ⁽¹⁾			
	Isigaba 0	Isigaba I	Isigaba II	Isigaba III
i-pH	6 – 9	5 – 6 & 9 – 9.5	4 – 5 & 9.5 – 10	<4 & >10
Ukudluliswa Kukagesi	< 70	70 - 150	150 - 370	> 370
i- <i>Calcium</i> njenge-Ca	< 80	80 - 150	150 - 300	> 300
i- <i>Magnesium</i> njenge-Mg	< 70	70 - 100	100 - 200	> 200
i- <i>Sodium</i> njenge-Na	< 100	100 - 200	200 - 400	> 400
i- <i>Chloride</i> njenge-Cl	< 100	100 - 200	200 - 600	> 600
i- <i>Sulphate</i> njenge-SO ₄	< 200	200 - 400	400 - 600	> 600
i- <i>Nitrate</i> njenge-NO _x -N	< 6	6 - 10	10 - 20	> 20
i- <i>Fluoride</i> njenge-F	< 0.7	0.7 - 1.0	1.5	> 1.5

¹⁾ Ukubhekisela: Izinga Losizo Lamanzi Asemakhaya, iVolumu 1: Umhlahlandlela Wokuhlola, Inguqulo 2. 1998. Umbiko Wekhomishini Yocwaningo Lwamanzi Nombolo: TT/98. Pretoria.

Isigaba 0: Amanzi ahlukaniwa njengamanzi akufanele ukuphuzwa, efanelekile ukusetshenziselwa ukuphila konke. Water is categorised as ideal drinking water, suitable for lifetime use. Amanani abalulekile, kanjalo nenhloso yezinhlobonhlobo zezinga lamanzi eNingizimu Afrika Esiqondisweni Sokusetshenziselwa Kwasemakhaya. Amanzi angaphansi kwesigaba 0 ahambisana nemikhawulo yezinga ye-SANS 241:2011.

Isigaba I: Amanzi ahlukaniwa njengamanzi amukelekile ukuphuzwa, asaphephile ukusetshenziselwa ukuphila konke; nokho, eminye imiphumela yempilo engemibi kangako, ezimeni eziyimvela kancane, ingabakhona. Kungase kube khona neminye imiphumela emihle. Amanzi angaphansi kwesigaba I ahambisana nemikhawulo yezinga ye-SANS 241:2011.

Isigaba II: Amanzi ahlukaniwa njengamanzi okuphuza abekezelekayo futhi avunyelwe ukusetshenziswa okulinganiswe kwesikhathi esincane noma okuphuthumayo. Imiphumela yempilo ingase iziwe kakhulu ngokufanayo, ngokuqhathaniswa neSigaba I, ikakhulukazi kulabo abangabasebenzisi bamanzi besikhathi eside. Amanzi ngaphansi kwesigaba II awahambisani nemikhawulo yezingala ye-SANS 241:2011. Ngakho-ke, akuphakanyiswa ukuthi amanzi asetshenziswe ngokuqhubekayo ingunaphakade. Lesi isona sodwa isigaba esiqondisweni esingacaci ngokuphathelene nesikhathi ngqo okungasetshenziswa kuso amanzi. Sibeka ukuthi angasetshenziselwa isikhathi esifushane, kodwa asichazi ukuthi ubude “besikhathi esifushane” sibhekiselakuphi.

Isigaba III: Amanzi ahlukaniwa njengamanzi okuphuza angafanele angabanga imiphumela yempilo emibi, ikakhulukazi ezinsaneni kanye nakubantu asebekhulile. Amanzi

ngaphansi kweSigaba III awahambisani nemikhawulo yezinga ye-SANS 241:2011. Ukusetshenziswa kwalawa manzi akukhuthazelwa inhloso yokuphuza.

iThebula 4.3: Okufinqiwe Kwezigaba zezinga lamanzi angaphansi komhlaba (uMvoti kuya Endaweni Yokulawula yo-UMzimkhulu)

T40A	208	12218	0	Akukho
T40B	278	10342	0	Akukho
T40C	237	22448	0	Akukho
T40D	372	41730	0	Akukho
T40E	485	42566	0	Akukho
T40F	335	18408	0	Akukho
T40G	300	18583	I	Ukuhlanganiswa okwandisiwe kwe-Cl; i-EC kanye ne-Na
T51A	327	719	0	Akukho
T51B	210	544	0	Akukho
T51C	461	9863	0	Akukho
T51D	141	736	0	Akukho
T51E	255	2281	II	F
T51F	306	673	0	Akukho
T51G	255	912	0	Akukho
T51H	519	20048	0	Akukho
T51J	265	16189	0	Akukho
T52A	382	16202	0	Akukho
T52B	255	16903	0	Akukho
T52C	260	12215	III	Ukuhlanganiswa okwandisiwe kwe-F; i-Cl; i-EC ne-Na
T52D	530	33704	0	Akukho
T52E	233	9647	I	Ukuhlanganiswa okwandisiwe kwe-F
T52F	417	18273	I	Ukuhlanganiswa okwandisiwe kwe-F
T52G	221	17670	0	Akukho
T52H	344	23270	0	Akukho
T52J	367	18260	0	Akukho
T52K	425	11787	I	Ukuhlanganiswa okwandisiwe kwe-F
T52L	178	4838	0	Akukho
T52M	313	13305	II	Ukuhlanganiswa okwandisiwe kwe-Cl
U10A	418	3221	I	F
U10B	392	3194	I	F
U10C	267	2483	I	F
U10D	337	5704	0	Akukho
U10E	327	10912	0	Akukho
U10F	379	11235	0	Akukho
U10G	353	5144	0	Akukho
U10H	458	13212	0	Akukho

U40E	318	25096	0	Akukho
U40F	290	8821	0	Akukho
U40G	253	14923	0	Akukho
U40H	361	38216	I	Ukuhlanganiswa okwandisiwe kwe-F
U40J	279	15373	I	Ukuhlanganiswa okwandisiwe kwe-Cl ne-EC
U50A	302	14776	II	Ukuhlanganiswa okwandisiwe kwe-Cl
U60A	105	2840	0	Akukho
U60B	316	6034	0	Akukho
U60C	365	21661	II	Ukuhlanganiswa okwandisiwe kwe-NO ₃
U60D	185	44305	I	Ukuhlanganiswa okwandisiwe kwe-Cl
U60E	280	31833	I	Ukuhlanganiswa okwandisiwe kwe-Ca ne-EC
U60F	264	36830	I	Ukuhlanganiswa okwandisiwe kwe-Cl; i- EC ne-NO ₃
U70A	114	1833	0	Akukho
U70B	272	6819	II	Ukuhlanganiswa okwandisiwe kwe-NO ₃
i-U70C	350	14354	II	Ukuhlanganiswa okwandisiwe kwe-NO ₃
i-U70D	208	14381	0	Akukho
i-U70E	87	7188	I	Ukuhlanganiswa okwandisiwe kwe-Cl; i- EC; i-F ne-Na
i-U70F	60	11370	I	Ukuhlanganiswa okwandisiwe kwe-Cl; i- EC; i-F ne-Na
i-U80A	159	5851	II	Ukuhlanganiswa okwandisiwe kwe-F
i-U80B	339	15186	0	Akukho
i-U80C	202	13368	0	Akukho
i-U80D	121	12545	0	Akukho
i-U80E	415	19355	III	Ukuhlanganiswa okwandisiwe kwe-Cl; i- EC ne-Na
i-U80F	137	10379	0	Akukho
i-U80G	261	13324	0	Akukho
i-U80H	244	8696	I	Ukuhlanganiswa okwandisiwe kwe-F
i-U80J	371	13066	0	Akukho
i-U80K	184	8808	I	Ukuhlanganiswa okwandisiwe kwe-Cl; i- EC; i-F ne-Na
i-U80L	108	8198	I	Ukuhlanganiswa okwandisiwe kwe-Cl; i- EC; i-F ne-Na

5. IZIZALO ZOMFULA

Ucwangingo Lwezingqobane ezinokwethenjela kakhulu lwaqhutshelwa izizalo zo-uMvoti kanye no-uMkomazi. I-EWR esizibeni sofula eshiobene nezizalo okukhulunywa ngazo iyaboniswa ngezansi (iThebula 5.1). Iokhu kugeleza kudngeka njengokuncane kusekela i-TEC yezizalo ekhethiwe (iThebula 5.1 kanye no-5.2). iThebula elingezansi linikeza imininingwane yokucaciswa kwemvelo.

iThebula 5.1: Ukucaciswa Kwemvelo kwezibalo kanye nokulandisayo okuhlobene Nezigaba Zemvelo zezizalo

ISIGABA SEMVELO	UKUCACISWA KWEMVELO OKULANDISAYO	UKUCACISWA KWEMVELO OKUNGAPHILI OKULANDISAYO (Ukugeleza, Amandla amanzi, izinga lamanzi kanye nendawo yokuhlala yangokwenyama)	UKUCACISWA KWEMVELO OKULANDISAYO (i-microbial, ama-macrophyte, izilwane ezingenamgogodla, izinhlanzi kanye nezinyoni)	IMIKHAWULO YEZIBALO YOKUCACISWA KWEMVELO
A	Akushintsheki, kuseduze nemvelo.	Kufana kakhulu nezimo zemvelo zokubhekisela	Kufana kakhulu nezimo zemvelo zokubhekisela	u-≥ A (u-≥ 93%)
A/B				u-≥ A/B (u-≥ 88%)
B	Kuyimvelo kakhulu enokuguqulwa okumbalwa.	Kuyimvelo kakhulu enokuguqulwa okumbalwa. Umbuso wokugeleza uguqulekekane futhi ukungcola kulinganiselwe enzakeni. Ushintsho oluncane lube khona ezindaweni zokuhlala zangokwenyama.	Kuyimvelo kakhulu enokuguqulwa okumbalwa. Kungaba ukuthi kube khona ushintsho oluncane kwingcebo yezinhlobo zemvelo, ekuchimeni Kanye/noma ekwakhiweni komphakathi. Kungabakhona ukusetshenziswa kwezinsizakalo okulinganiselwe. Kodwa, imisebenzi yemvelo eyisisekelo kanye nezinqubo akushintshwa kaningi namanje.	u-≥ B (u-≥ 78%)
B/C				u-≥ B/C (u-≥ 73%)
C	Kuguqulwe ngokulinganisiwe.	Kuguqulwe ngokulinganisiwe. Kube khona okunye ukulahlekelwa kanye nokushintsha ekugelezini, emandleni amanzi, ezingeni lamanzi kanye nesendaweni yokuhlala, kodwa izinqubo zemvelo eziyisisekelo azishintshwa kaningi namanje.	Kuguqulwe kakhulu. Kube khona ukulahlekelwa kanye nokushintsha kwingcebo yezinhlobo zemvelo. ukuchichima kanye/noma ukwakheka komphakathi, kodwa imisebenzi yemvelo eyisisekelo kanye nezinqubo akushintshwa kaningi namanje.	u-≥ C (u-≥ 63%)
C/D				u-≥ C/D (u-≥ 58%)
D	Kuguqulwe kakhulu.	Kuguqulwe kakhulu. Kube khona ukushintsho olukhulu (noma ukulahlekelwa) kwezinqubo zemvelo yokungaphili.	Kuguqulwe kakhulu. Kube khona ukulahlekelwa okukhulu kwingcebo yezinhlobo zemvelo, ukuchichima kanye/noma ukwakhiwa komphakathi, ngophazamiseka kakhulu kwemisebenzi kanye nezinqubo zemvelo.	u-≥ D (u-≥ 43%)
D/E				u-≥ D/E (u-≥ 38%)
E	Kuguqulwe ngobucayi.	Kuguqulwe ngobucayi. Kukhulu ukulahlekelwa kwezinqubo kanye nemisebenzi yokungaphili.	Kuguqulwe ngobucayi. Kube khona ukulahlekelwa okukhulu kwingcebo yezinhlobo zemvelo, ukuchichima kanye/noma ukwakhiwa komphakathi, ngophazamiseka kakhulu kwemisebenzi kanye nezinqubo zemvelo.	u-≥ E (u-≥ 23%)
E/F				u-≥ D/E (u-≥ 18%)
F	Kuguqulwe kakhulu/ Kabi.	Kuguqulwe kakhulu/ Kabi. Izinguqulo zifike ezingeni elibi futhi uhlelo lushintshwe ngokuphelele ngokulahlekelwa cishe	Kuguqulwe kakhulu/ Kabi. Kube khona cishe ukulahlekelwa okuphelele kwingcebo yezinhlobo zemvelo, ukuchichima	u-≥ F (u-0 kuya ku-17%)

ISIGABA SEMVELO	UKUCACISWA KWEMVELO OKULANDISAYO	UKUCACISWA KWEMVELO OKUNGAPHILI OKULANDISAYO (Ukugeleza, Amandla amanzi, izinga lamanzi kanye nendawo yokuhlala yangokwenyama)	UKUCACISWA KWEMVELO OKULANDISAYO (i-microalgae, ama-macrophyte, izilwane ezingenamgogodla, izinhlanzi kanye nezinyoni)	IMIKHAWULO YEZIBALO YOKUCACISWA KWEMVELO
		okuphelele kwezingqubo nemisebenzi yemvelo yokungaphili. Ezimeni ezimbi kakhulu, ushintsho alubuyiseleki.	kanye/noma ukwakhiwa komphakathi. Ezimeni ezimbi kakhulu, ushintsho alubuyiseleki.	

iThebula 5.2: Igalelo lokugeleza komfula ezizalweni zo-uMkomazi no-uMvoti

i-RU	Indawo yomfula yenhlobo-vo kanye nengosi i-EWR	Umfula	i-EC ehlosiwe	i-nMAR (i-MCM)	Ukugeleza okuncane kwe-EWR (i-%le-nMAR)	Ingqikithi yokugeleza kwe-EWR (i-%le-nMAR)	Mandulo*		Nhlolanja*	
							(m³/s)		(m³/s)	
							u-90%	u-60%	u-90%	u-60%
							u-90%	u-60%	u-90%	u-60%
uMKHOMAZI (U1): IUA U1-4										
i-MRU uMKHOMAZI D	i-U10M-04746 Mk I EWR3	uMkhomazi	C	1068.6	21.2	31.1	1.532	2.203	5.589	7.668
i-MRU MVOTI C	i-U40H-04064 Mv I EWR2	uMvoti	C	273.96	14.4	21.2	0.174	0.402	0.622	1.336

iThebula 5.3: IZIZALO: Ukucaciswa kwemvelo kwezinga lamanzi, ukwakheka komhlaba, izimila zasemanzini, izilwane ezingenamgogodla ezinkulu kanye nezinhlazi kuma-RU abaluleke KAKHULU

Ingxenye/ Inkomba	i-TEC	Ukucaciswa Kwemvelo
ISIZALO so-uMKHOMAZI		
Isayensi yamanzi	C/D	<ul style="list-style-type: none">Akugcinwe i-EC ehlosiwe (>57%).Ukugeleza phakathi komfula kwenyanga kuka-> 1.0 m³/sUkugeleza phakathi komfula kwenyanga kuka-> 2.0 m³/s okuphikelela ngaphezu kwezinyanga ezintathuzilandelana.Ukugeleza phakathi komfula kwenyanga kuka-> 5.0 m³/s okungaphezu kuka-30% wesikhathi.
Amandla amanzi	A	<ul style="list-style-type: none">Akugcinwe i-EC ehlosiwe (>93%).Ukuvala komlomo kwenzeka ngaphansi kwamaviki amabili kuya kwamathathu onyakeni.Ukuvala komlomo kwenzeka ngaphansi kweminyaka emibili kweyishumi.Ukuvala komlomo akwenzeki phakathi kukaMandulo noMbasa.
Izinga lamanzi	C	<p>Akugcinwe i-EC ehlosiwe (>63%). Ama-ROQ ezinga lamanzi ekugelezeni kwaphakathi komfula azovikela izinga lemvelo yezizalo:</p> <ul style="list-style-type: none">i-pH: u-7.5 kuya ku-8.5.i-DO u-> 6 mg/L.

Ingxenywe/ Inkomba	i-TEC	Ukucaciswa Kwemvelo
		<ul style="list-style-type: none"> • Ukungcola (ukugeleza okuncane kuka-$< 5\text{ m}^3/\text{s}$): $u < 15$ NTU. • Ukungcola (ukugeleza okuncane kuka-$< 5\text{ m}^3/\text{s}$): Ukungcola kwemvelo. • Izakhi ezincibikile (ukugeleza okuncane kuka-$< 5\text{ m}^3/\text{s}$): $i\text{-NO}_x\text{-N}$ $u < 150\text{ }\mu\text{g/L}$; $i\text{-NH}_3\text{-N}$ $u < 20\text{ }\mu\text{g/L}$; $i\text{-PO}_4\text{-P}$ $u < 10\text{ }\mu\text{g/L}$. • Izakhi ezincibikile (ukugeleza okuncane kuka-$< 5\text{ m}^3/\text{s}$): $i\text{-NO}_x\text{-N}$ $u < 200\text{ }\mu\text{g/L}$; $i\text{-NH}_3\text{-N}$ $u < 20\text{ }\mu\text{g/L}$; $i\text{-PO}_4\text{-P}$ $u < 20\text{ }\mu\text{g/L}$. <p>Imfuneko encane yokusetshenziswa kokuzijabulisa (i-DEA, 2012):</p> <ul style="list-style-type: none"> • <i>i-Enterococci</i>: Amaphesenti angamashumi ayishiyagalolunye (u-90%ile) ezinyangeni ezingu-12 zokusebenza, $u \leq 185$ wezibalo ngo-100 ml ngamunye. • <i>i-E. coli</i>: Amaphesenti angamashumi ayishiyagalolunye (u-90%ile) ezinyangeni ezingu-12 zokusebenza, $u \leq 500$ wezibalo ngo-100 ml ngamunye. <p>Ama-ROQ ezinga lamanzi ezizalweni azovikela izinga lemvelo yezizalo:</p> <ul style="list-style-type: none"> • Usawoti: u-0 ekufinyeleleni okuphezulu; $u > 20$ ekufinyeleleni okuphakathi sesikhathi sokugeleza okuncane; amanzi ahlanzekile abe namandla ku-70% wesikhathi. • Ukungcola (ukugeleza okuncane kuka-$< 5\text{ m}^3/\text{s}$): Isilinganiso sika-< 10 NTU kunoma iyiphi inhlobo-vo yokusampula. • <i>i-pH</i>: Isilinganiso sika-7.0 kuya ku-8.5 kunoma iyiphi inhlobo-vo yokusampula. • Umoyampilo oncibikile: Isilinganiso sika-$> 6\text{ mg/L}$ kunoma iyiphi inhlobo-vo yokusampula. • Izakhi ezincibikile (ukugeleza okuncane kuka-$< 5\text{ m}^3/\text{s}$): Isilinganiso sika-$< 150\text{ }\mu\text{g/L}$, $i\text{-NH}_3\text{-N}$ $u < 20\text{ }\mu\text{g/L}$ ne-$\text{PO}_4\text{-P}$ $u < 10\text{ }\mu\text{g/L}$ kunoma iyiphi inhlobo-vo yokusampula. • Izakhi ezincibikile (ukugeleza okuncane kuka-$< 5\text{ m}^3/\text{s}$): Isilinganiso sika-$< 300\text{ }\mu\text{g/L}$, $i\text{-NH}_3\text{-N}$ $u < 20\text{ }\mu\text{g/L}$ ne-$\text{PO}_4\text{-P}$ $u < 20\text{ }\mu\text{g/L}$ kunoma iyiphi inhlobo-vo yokusampula. • Ingqikithi yokuhlanganiswa kwensimbi emanzini akufanele yeqe amanani enhloso Ngeziqondiso Zezinga Lamanzi ngazinye eNingizimu Afrika zamanzi asogwini (i-DWAF, 1995). • Ingqikithi yokuhlanganiswa kwensimbi enzakeni akufanele kweqe amanani ahlosiwe ngeziqondiso zeSifunda se-WIO ngazinye (i-UNEP/Ihovisi Lobubhalane Lenhlangano ye-Nairobi kanye ne-CSIR, ka-2009).
Amandla enzika	B	Akugcinwe i-EC ehlosiwe ($u > 78\%$)
i-Microalgae	B	Akugcinwe i-EC ehlosiwe ($u > 78\%$).
ama-Macrophyte	D	Akugcinwe i-EC ehlosiwe ($u > 43\%$).
Izilwane ezingenamgogodla	B	Akugcinwe i-EC ehlosiwe ($u > 78\%$).
Izinhlanzi	D	Akugcinwe i-EC ehlosiwe ($u > 43\%$).
Izinyoni	C	Akugcinwe i-EC ehlosiwe ($u > 63\%$).
ISIZALO so-UMVOTI		
Isayensi yamanzi	C/D	<p>Akugcinwe i-EC ehlosiwe ($u > 57\%$).</p> <ul style="list-style-type: none"> • Ukugeleza phakathi komfula kwenyanga kuka-$> 1.0\text{ m}^3/\text{s}$. • Ukugeleza phakathi komfula kwenyanga kuka-$> 2.0\text{ m}^3/\text{s}$ okuphikelela ngaphezu kwezinyanga ezintathuzilandelana. • Ukugeleza phakathi komfula kwenyanga kuka-$> 2.0\text{ m}^3/\text{s}$ okungaphezu kuka-50% wesikhathi.
Amandla amanzi	A	Akugcinwe i-EC ehlosiwe ($u > 93\%$).

Ingxenye/ Inkomba	i-TEC	Ukucaciswa Kwemvelo
		<ul style="list-style-type: none"> • Ukuvala komlomo kwenzeka eminyakeni emibili kuya kwemithathu. • Ukuvala komlomo kwenzeka ngaphansi kweminyaka emibili kweyishumi. • Ukuvala komlomo akwenzeki phakathi kukalwezi noNhlanguvana.
		<p>Akuginwe i-EC ehlosiwe (u->57%). Ecospecs for river inflow to protect estuarine ecosystem quality:</p> <ul style="list-style-type: none"> • -pH: u-7.0 kuya ku-8.5. • i-DO u-> 4 mg/L. • Ukungcola (ukugeleza okuncane): u-<15 NTU. • Izakhi ezincibikile: i-NO_x-N u-< 400 µg/L; i-NH₃-N u-< 30 µg/L; i-PO₄-P u-< 25 µg/L.
Izinga lamanzi	C/D	<p>Ama-ROQ ezinga lamanzi ezizalweni azovikela izinga lemvelo yezizalo:</p> <ul style="list-style-type: none"> • Usawoti: Isilinganiso sikasawoti esizibeni samanzi sika-1 km kusuka emlomeni u-<20 i-PSU; Isilinganiso sikasawoti kuso sonke isizalo u-<1 we-PSU okungenani sika-50% wesikhathi. • Ukungcola (ukugeleza okuncane): u-<10 NTU kunoma iyiphi inhlobo-vo yokusampula. • i-pH: Isilinganiso sika-7.0 kuya ku-8.5 kunoma iyiphi inhlobo-vo yokusampula. • Izakhi ezincibikile: Average > 4 mg/L kunoma iyiphi inhlobo-vo yokusampula. • Izakhi ezincibikile: Isilinganiso sika-NO_x-N u-< 400 µg/L, i-NH₃-N u-< 30 µg/L ne-PO₄-P u-< 25 µg/L kunoma iyiphi inhlobo-vo yokusampula. • Ingqikithi yokuhlangukiswa kwensimbi emanzini akufanele yeqe amanani enhloso Ngeziqondiso Zezinga Lamanzi ngazinye eNingizimu Afrika zamanzi asogwini (i-DWAF, 1995). • Ingqikithi yokuhlangukiswa kwensimbi enzikeneni akufanele kweqe amanani ahlosiwe ngeziqondiso zeSifunda se-WIO ngazinye (i-UNEP/Ihnovisi Lobubhalane Lenhlangukano ye-Nairobi kanye ne-CSIR, ka-2009).
Amandla enzika	B/C	Akuginwe i-EC ehlosiwe (u->72%).
i-Microalgae	B	Akuginwe i-EC ehlosiwe (u->78%).
ama-Macrophyte	D	Akuginwe i-EC ehlosiwe (u->43%).
Izilwane ezingenamgogodla	E	Akuginwe i-EC ehlosiwe (u->23%).
Izinhlanzi	D	Akuginwe i-EC ehlosiwe (u->43%).
Izinyoni	E	Akuginwe i-EC ehlosiwe (u->23%).

6. IZINDAWO ZASEMAXHAPHOZINI

Ukucaciswa kwemvelo okuningiliziwe Kwezindawo Zasemaxhaphozini Ngazinye Ezibaluleke Kakhulu

Ezindaweni zasemaxhaphozini ezinkulu ezitholakale kwi-WMA, ezine zikhethwe njengezibalulekile ukunquma ukucaciswa kwemvelo okuningiliziwe ekubalulekeni nasekutholakaleni kwakho kanye neminingwane eyisisekelo eningiliziwe. Lezi zinhlelo zezindawo zasemaxhaphozini ezine yilezi:

- Indawo yasexhaphozini iNtsikeni, ingosi i-RAMSAR engaphakathi kwesiziba sekota i-T51H-04846;
- Isipanji uMngeni, ingosi i-RAMSAR engaphakathi kwesiziba sekota i-U20A-04253;
- i-Swamp, ingosi yokuqapha yendawo yasexhaphozini i-Ezemvelo yase-KZN ebalulekile etholakala Emfuleni iPholela ngaphakathi kwesiziba sekotanyana i-T51E-04478; futhi;
- uMvoti Vlei, ingosi yokuqapha yendawo yasexhaphozini i-Ezemvelo yase-KZN ebalulekile etholakala Emfuleni uMvoti ngaphakathi kwesiziba sekotanyana i-U40A- 03869.

Lezi zindawo zasemaxhaphozini Zinesimo Semvelo sesisekelo kanye neminye iminingwane yokuqapha etholakalayo, evumela ukuthi kunqunywe ukucaciswa kwemvelo okuningiliziwe kwalezi zinhlelo.

Ezizibeni zekota ezine-EIS ekahle noma enkulu, i-EIS yesilinganiso sezindawo zasemaxhaphozini kanye namaphuzu e-PES kuyanikezwa kwiThebula 6.1 neThebula 6.2.

iThebula 6.1: i-IES yesilinganiso sendayo yasexhaphozini (kulinganiselwe ngobukhulu besiziba sekota) yezindawo zasemaxhaphozini kwi-WMA yoMvoti

i-EIS yeSilinganiso	Iziziba Zekota
Ekuqaleni kuya ebuncaneni	i-U40G, i-U40D, i-U40E, i-U40H, i-U10A, i-U20K, i-U20G, i-U30E, i-U30C, i-U30A, i-U10B, i-U30D, i-U20L, i-U20M, i-U60F, i-U60D, i-U70C, i-U10L, i-U70D, i-U70F, i-U10M, i-U70E, i-U80J, i-U80K, i-U80L, i-U80G, i-U80H, i-U80B, i-T52G, i-U80F, i-T52J, i-U80D, i-U80C, i-T52M, i-U80A, i-T52L, i-T40D, i-T40G, i-T40F.
Phakathi	i-U40F, i-U40B, i-U40C, i-U20E, i-U20J, i-U30B, i-U20H, i-U60A, i-U60C, i-U60B, i-U70A, i-U70B, i-U60E, i-T52C, i-T52D, i-U80E, i-T52F, i-T40B, i-T52K, i-T40A, i-T40C, i-T40E.
Phezulu	i-U50A, i-U20F, i-U40J, i-U20D, i-U20B, i-U20C, i-U10E, i-U10C, i-U10G, i-T51D, i-U10F, i-T51B, i-T51A, i-T51E, i-U10H, i-T51F, i-T51C, i-T52A, i-T51G, i-U10J, i-T51J, i-U10K, i-T52B, i-T52E, i-T52H.
Phezulu kakhulu	i-U40A, i-U10D, i-U20A, i-T51H

iThebula 6.2: i-PES yesilinganiso sendayo yasexhaphozini (kulinganiselwe ngobukhulu besiziba sekota) yezindawo zasemaxhaphozini kwi-WMA yoMvoti

i-PES Yesilinganiso (i-EC eyisisekelo)	Iziziba Zekota
B	i-U10E, i-T51H*, i-T51J,
B/C	i-T51B, i-T52E,
C	i-T40C, i-T40E, i-T51A, i-T51C, i-T51D, i-T51E*, i-T51G, i-T52A, i-T52B, i-T52C, i-U10K, i-U10C, i-U10D, i-U10F, i-U10G, i-U20A*, i-U20E, i-U20F, i-U20D, i-U20C, i-U40B, i-U60C
C/D	i-U10H, i-U30B, i-U40C, i-U40F, i-U60B, i-U70A, i-T40B, i-T51F, i-T52D, i-T52H, i-T52F, i-T52K
D	i-U10J, i-U20B, i-U20H, i-U20J, i-U40A*, i-U40J, i-U50A, i-U60A, i-U60E, i-U70B, i-U80E, i-T40A

* Izikhala ezigqanyisiwe zimelela izindawo zasemaxhaphozini ezibaluleke kakhulu ze-WMA okutholakala kuyo iminingwane eyisisekelo.

Ukucaciswa kwemvelo okuningiliziwe Kwezindawo Zasemaxhaphozini Ngazinye Ezibaluleke Kakhulu

Ngenxa yemininingwane elinganiselwe etholakalayo, ukucaciswa kwemvelo kusungulelwe izindawo zasemaxhaphozini ezine ezitholakele ezibalulekile ezitholakele kwiThebula 6.3.

iThebula 6.3: Iziziba zekotanyana ezinezindawo zasemaxhaphozini ze-FEPA ezincike kakhulu kakhulu, kakhulu noma kancane ekugelezeni komfula okuqondile

Ikotanyana	Igama	i-IBAs ¹ noma indawo yokulondoloza ebaluleke kakhulu	Izindawo zasemaxhaphozini ezikhona ze-NFEPA ²	Ukuxhomeka okuxhumene noMfula
i-T51E-04478*	iPholela	Ingosi yokuqapha ebalulekile i-Ezemvelo yase-KZN. ("i-Swamp").	Izindawo zasemaxhaphozini ezingezansi kwesigodi esikhulu.	KUKHULU KAKHULU
i-T51H-04846	iLubhukwini	Ingosi i-RAMSAR (indawo yasexhaphozini iNtsikeni kanye nokugcinwa kwemvelo) kanye nengosi yokuqapha ebalulekile i-Ezemvelo yase-KZN.	Izindawo zasemaxhaphozini zangezansi kwesigodi ezinkulu ngokofanele (umfula oyinhloko kanye nomngenela)	KUKHULU
i-U40A-03869	uMvoti vlei	Ingosi yokuqapha ebalulekile i-Ezemvelo yase-KZN.	Inkimbinkimbi yendawo yasexhaphozini enkulu.	KUKHULU
i-U20A-04253	Isipanji so-uMngeni	Ingosi i-RAMSAR, ingosi yokuqapha ebalulekile i-Ezemvelo yase-KZN.	Amaphakethe engezansi lesigodi kanye nomngenela wezindawo zasemaxhaphozini.	KUKHULU

¹ Izindawo Ezibalulekile Zezinyoni

² Izindawo Ezibalulekile Zemvelo Yamanzi Acwengekile Kuzwelonke

* Izikhala ezigqanyisiwe zimelela izindawo zasemaxhaphozini ezibaluleke kakhulu ze-WMA okutholakala kuyo imininingwane eyisisekelo.

iThebula 6.4: Ukucaciswa kwemvelo okuningiliziwe Kwezindawo Zasemaxhaphozini Ngazinye Ezibaluleke Kakhulu

i-IUA	i-SQ	Ingxenye	Ingxenyana	Ukucaciswa kwemvelo		Inkomba/isinyathelo
				Incazelo	Izibalo	
i-vlei yoMvoti (Ingosi yokuqapha ebalulekile i-Ezemvelo yase-KZN).						
i-MRU yoMvoti A	i-U40A-03869	Inani lamanzi	Okufaka amanzi	Inani kanye nesikhathi sokufakayo, kanye nokusathsalaliswa nokugcinwa kwamaphethini ngaphakathi kwendawo yasexhaphozini kumele kugcinwe ukugwema ukulahlekelwa umsebenzi wamanzi wezindawo zasemaxhaphozini.	Isimo esikhona u-E. Indlela yezibalo kufanele ilingane ukuthuthukisa isimo esikhona ngokusebenzi sa amaphethini ezikhukhula zamanzi kanye nokugeleza.	Iphuzu lesayensi yamanzi asezindaweni zasemaxhaphozini. Ukuhlolwa okuningiliziwe kwesayensi yamanzi ezindawo zasemaxhaphozini ngokusebenzisa ithuluzi le-PES esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuma komhlaba	Ukuma komhlaba wezindawo zasemaxhaphozini kumele kugcinwe ukuqinisekisa ukuthi ukuma kanye nomsebenzi wemvelo kuyagcinwa.	Isimo esikhona u-A. Indlela yezibalo kufanele ilingane kwi-EC efanayo.	Iphuzu lokuma komhlaba kwezindawo zasemaxhaphozini. Isifundo sokuma komhlaba sethuluzi le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Izimila jikelele	Izimila zezindawo zasemaxhaphozini kumele zigcinwe ukuqinisekisa ukuthi ukuma kanye nomsebenzi wemvelo kuyagcinwa.	Isimo esigona u-D. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu.	Iphuzu lezimila zezindawo zasemaxhaphozini. Isifundo sezimila sethuluzi le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuphelela kwe-PES	i-PES ephelele yezindawo zasemaxhaphozini kumele igcinwe.	Isimo esigona u-D. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu.	Ithuluzi lokuhlola le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		i-Biota	Ogilonko ababiyelelwe	Inani lamanzi, izimila kanye	Ukubakhona okungenani	Inani lomata abazalayo

i-IUA	i-SQ	Ingxenye	Ingxenyana	Ukucaciswa kwemvelo		Inkomba/isinyathelo
				Incazelo	Izibalo	
				nemisebenzi yokusebenzisa umhlaba kumele kugcinwe emazingeni angabangeli ukunqaba komphakathi wogilonko ababiyelwe.	komata abazalayo abayisithupha bogilonko ababiyelwe (isisekelo sika-2014).	bogilonko ababiyelwe.
		Izinga lamanzi	Imininingwane eningiliziwe yezinkomba zezinga lamanzi yalendawo yasexhaphozini ayikho futhi akukho ukucaciswa kwemvelo okuningiliziwe okuhlobene nezinga lamanzi okunqunyiwe.			
i-Swamp (Ingosi yokuqapha yendawo yasexhaphozini i-Ezemvelo yase-KZN ebalulekile)						
i-RU Mz4	i-T51E-04478	Ukutholakala kwamanzi	Okufaka amanzi	Inani kanye nesikhathi sokufakayo, kanye nokusathsalaliswa nokugcinwa kwamaphethini ngaphakathi kwendawo yasexhaphozini kumele kugcinwe ukugwema ukulahlekelwa umsebenzi wamanzi wezindawo zasemaxhaphozini.	Isimo esikhona u-D. Indlela yezibalo kufanele ilingane ukuthuthukisa isimo esikhona ngokusebenzisa amaphethini ezikhukhula zamanzi kanye nokugeleza.	Iphuzu lesayensi yamanzi asezindaweni zasemaxhaphozini. Ukuhlolwa okuningiliziwe kwesayensi yamanzi ezindawo zasemaxhaphozini ngokusebenzisa ithuluzi le-PES esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuma komhlaba	Ukuma komhlaba wezindawo zasemaxhaphozini kumele kugcinwe ukuqinisekisa ukuthi ukuma kanye nomsebenzi wemvelo kuyagcinwa.	Isimo esikhona u-C. Indlela yezibalo kufanele ilingane kwi-EC efanayo.	Iphuzu lokuma komhlaba kwezindawo zasemaxhaphozini. Isifundo sokuma komhlaba sethuluzi le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Izimila jikelele	Izimila zezindawo zasemaxhaphozini kumele zigcinwe ukuqinisekisa ukuthi ukuma kanye nomsebenzi wemvelo kuyagcinwa.	Isimo esigona u-C. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu.	Iphuzu lezimila zezindawo zasemaxhaphozini. Isifundo sezimila sethuluzi le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.

i-IUA	i-SQ	Ingxenywe	Ingxenyana	Ukucaciswa kwemvelo		Inkomba/isinyathelo	
				Incazelo	Izibalo		
		Indawo yokuhlala	Izimila ze- <i>Cyperus marginatus</i>	Ububanzi kanye nokutholakala kuka-C. Izogcinwa i- <i>marginatus</i> .		Izindawo zamanje azaziwa, kodwa kufanele kungancishiswa ngaphezu kuka-20% ngaphansi kwesisekelo.	Indawo yezinhlobo zezimila esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuphelela kwe-PES	i-PES ephelele yezindawo zasemaxhaphozini kumele igcinwe.		Isimo esigona u-C. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu.	Ithuluzi lokuhlala le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		i-Biota	Ngaphandle kuka-C obalulekile. i- <i>marginatus</i> , akukho ukucaciswa kwemvelo kwezinhlobo ezithile okubekiwe kwalendawo yasexhaphozini.				
		Izinga lamanzi	Imininingwane eningilizwe yezinkomba zezinga lamanzi yalendawo yasexhaphozini ayikho futhi akukho ukucaciswa kwemvelo okuningilizwe okuhlobene nezinga lamanzi okunqunye.				
Indawo yasexhaphozini iNtsikeni (indawo yasexhaphozini ye-Ramsar)							
i-Ru Mz8	i-T51H-04846	Ukutholakala kwamanzi	Isayensi yamanzi	Inani kanye nesikhathi sokufakayo, kanye nokusathsalisw a nokugcinwa kwamaphethini ngaphakathi kwendawo yasexhaphozini kumele kugcinwe ukugwema ukulahlekelwa umsebenzi wamanzi wezindawo zasemaxhaphozini.		Isimo esikhona u-A. Indlela yezibalo kufanele ilingane ukuthuthukisa isimo esikhona ngokusebenzi sa amaphethini ezikhukhula zamanzi kanye nokugeleza.	Iphuzu lesayensi yamanzi asezindaweni zasemaxhaphozini. Ukuhlolwa okuningilizwe kwesayensi yamanzi ezindawo zasemaxhaphozini ngokusebenzisa ithuluzi le-PES esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuma komhlaba	Ukuma komhlaba wezindawo zasemaxhaphozini kumele kugcinwe ukuqinisekisa ukuthi ukuma		Isimo esikhona u-A. Indlela yezibalo kufanele ilingane kwi-EC efanayo.	Iphuzu lokuma komhlaba kwezindawo zasemaxhaphozini. Isifundo sokuma komhlaba sethuluzi le-PES yezindawo

i-IUA	i-SQ	Ingxenye	Ingxenyana	Ukucaciswa kwemvelo		Inkomba/isinyathelo
				Incazelo	Izibalo	
				kanye nomsebenzi wemvelo kuyagcinwa.		zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Izimila jikelele	Izimila zezindawo zasemaxhaphozini kumele zigcinwe ukuqinisekisa ukuthi ukuma kanye nomsebenzi wemvelo kuyagcinwa.	Isimo esigona u-B. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu kuka-B.	Iphuzu lezimila zezindawo zasemaxhaphozini. Isifundo sezimila sethuluzi le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuphelela kwe-PES	i-PES ephelele yezindawo zasemaxhaphozini kumele igcinwe.	Isimo esigona u-A. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu.	Ithuluzi lokuhlola le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		i-Biota	Ogilonko ababiyelwe	Inani lamanzi, izimila kanye nemisebenzi yokusebenzisa umhlaba kumele kugcinwe emazingeni angabangeli ukunqaba komphakathi wogilonko ababiyelwe.	Ukubakhona okungenani komata abazalayo abayisithupha bogilonko ababiyelwe (isisekelo sika-2014).	Inani lomata abazalayo bogilonko ababiyelwe.
		i-Biota	Izinyoni zasezinhlanjeni zase-Europe	Inani lamanzi, izimila kanye nemisebenzi yokusebenzisa umhlaba kumele kugcinwe emazingeni angabangeli ukunqaba komphakathi wezinyoni zasezinhlanjeni zase-Europe ababiyelwe.		Ukuba khona konyaka kwezinyoni zasezinhlanjeni zase-Europe (Annual presence of European Bitterns (ezibonakale noma ezikhonjwe ekushayweni).
		Izinga lamanzi	Imininingwane eningiliziwe yezinkomba zezinga lamanzi yalendawo yasexhaphozini ayikho futhi akukho ukucaciswa kwemvelo okuningiliziwe okuhlobene nezinga lamanzi okunquniwe.			
Isipanji uMgeni (Ingosi i-Ramsar)						

i-IUA	i-SQ	Ingxenywe	Ingxenyana	Ukucaciswa kwemvelo		Inkomba/isinyathelo
				Incazelo	Izibalo	
i-MRU uMnA	i-U20A-04253	Ukutholakala kwamanzi	Isayensi yamanzi	Inani kanye nesikhathi sokufakayo, kanye nokusathsalisw a nokugcinwa kwamaphethini ngaphakathi kwendawo yasexhaphozini kumele kugcinwe ukugwema ukulahlekelwa umsebenzi wamanzi wezindawo zasemaxhaphozini.	Isimo esikhona u-C. Indlela yezibalo kufanele ilingane ukuthuthukisa isimo esikhona ngokusebenzi sa amaphethini ezikhukhula zamanzi kanye nokugeleza.	Iphuzu lesayensi yamanzi asezindaweni zasemaxhaphozini. Ukuhlolwa okuningiliziwe kwesayensi yamanzi ezindawo zasemaxhaphozini ngokusebenzisa ithuluzi le-PES esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuma komhlaba	Ukuma komhlaba wezindawo zasemaxhaphozini kumele kugcinwe ukuqinisekisa ukuthi ukuma kanye nomsebenzi wemvelo kuyagcinwa.	Isimo esikhona u-A. Indlela yezibalo kufanele ilingane kwi-EC efanayo.	Iphuzu lokuma komhlaba kwezindawo zasemaxhaphozini. Isifundo sokuma komhlaba sethuluzi le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Izimila jikelele	Izimila zezindawo zasemaxhaphozini kumele zigcinwe ukuqinisekisa ukuthi ukuma kanye nomsebenzi wemvelo kuyagcinwa.	Isimo esigona u-C. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu.	Iphuzu lezimila zezindawo zasemaxhaphozini. Isifundo sezimila sethuluzi le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		Indawo yokuhlala	Ukuphelela kwe-PES	i-PES ephelele yezindawo zasemaxhaphozini kumele igcinwe.	Isimo esigona u-C. Indlela yezibalo kufanele ilingane ne-EC efanayo noma ibe ngaphezulu.	Ithuluzi lokuhlala le-PES yezindawo zasemaxhaphozini esikhathini seminyaka emithathu kuya kwemihlanu.
		i-Biota	Ogilonko ababiyelelwe	Inani lamanzi, izimila kanye nemisebenzi yokusebenzisa umhlaba kumele kugcinwe emazingeni angabangeli	Ukubakhona okungenani komata abazalayo abayisithupha bogilonko ababiyelelwe	Inani lomata abazalayo bogilonko ababiyelelwe.

i-IUA	i-SQ	Ingxenywe	Ingxenyana	Ukucaciswa kwemvelo		Inkomba/isinyathelo
				Incazelo	Izibalo	
				ukunqaba komphakathi wogilonko ababiyelelwe.	(isisekelo sika-2014).	

GENERAL NOTICES • ALGEMENE KENNISGEWINGS

DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES**NOTICE 626 OF 2018****EXCLUSION OF CERTAIN PROPERTIES FROM THE PROVISIONS OF THE SUBDIVISION OF AGRICULTURAL LAND ACT, ACT 70 OF 1970 IN VARIOUS MUNICIPALITIES WITHIN THE REPUBLIC OF SOUTH AFRICA.****NOTICE FOR PUBLIC**

I, Senzeni Zokwana,, Minister of Agriculture, Forestry and Fisheries hereby proclaim the exclusion of certain properties from the provisions of the Subdivision of Agricultural Land Act, Act no 70 of 1970 in City of Cape Town Metro Municipality Western Cape Province.

The properties to be included in the town planning scheme of uMngeni Local Municipality in KwaZulu-Natal Province are as follows:

Erven 1 to 141, 144 to 210, 212 to 591, 593 to 594, 612 to 627, 741 to 757, 1 to 4/770 all of FT Major Region.

Remainder of Erven 21, Portion 1 of Erven 21, Portion 1 of Erven 25, Portion 1 of Erven 26, Portion 1 and 2 of Erven 26, Portion 1 of Erven 31, Portion 1 and 2 of Erven 32, Remainder of Erven 32, Remainder of Erven 33, Portion 1 and 2 of Erven 33, Remainder of Erven 34, Portion 1 of Erven 34, Remainder of Erven 59, Portion 1, 2 and 3 of Erven 59, Remainder of Erven 61, Remainder of Erven 100, Portion 1 of Erven 100, Remainder of Erven 104, Portion 1 of Erven 104, Remainder of Erven 127, Portion 1 of Erven 127, Remainder of Erven 128, Portion 1 of Erven 128, Remainder of Erven 148, Portion 1 of Erven 148, Remainder of Erven 151, Portion 1 of Erven 151, Remainder of Erven 153, Portion 1 of Erven 153, Remainder of Erven 154, Remainder of Erven 158, Portion 1 of Erven 158, Remainder of Erven 159, Portion 1 of Erven 159, Remainder of Erven 160, Portion 1 of Erven 160, Portion 1 of Erven 162, Remainder of Erven 163, Portion 1 of Erven 163, Remainder of Erven 168, Portion 1 of Erven 168, Remainder of Erven 168, Portion 1 of Erven 168, Remainder of Erven 171, Portion 1 of Erven 171, Remainder of Erven 174, Portion 1 of Erven 174, Remainder of Erven 175, Portion 1 of Erven 175, Remainder of Erven 176, Portion 1 of Erven 176, Remainder of Erven 177, Portion 1 of Erven 177, Remainder of Erven 178, Portion 1 of Erven 178, Remainder of Erven 181, Portion 1 of Erven 181, Remainder of Erven 182, Portion 1 of Erven 182, Remainder of Erven 190, Portion 1 of Erven 190, Remainder of Erven 191, Portion 1 of Erven 191, Remainder of Erven 195, Portion 1 of Erven 195, Remainder of Erven 197, Portion 1 of Erven 197, Remainder of Erven 198, Portion 1 of Erven 198, Remainder of Erven 199, Portion 1 to 6 of Erven 199, Remainder of Erven 200, Portion 1 of Erven 200, Remainder of Erven 202, Portion 1 of Erven 202, Remainder of Erven 206, Portion 1 to 8 of Erven 206, Remainder of Erven 333 and 334, Portion 1 and 2 of Erven 334, Portion 1 to 4 of Erven 770 all of FT Major Region.

Erven 1010, 1011, 1012, 1013 and 1064 all of FT Major Region.

Portion 1 of the farm Broeders hoek 793-FT.

Portion 2, 6, 9, 11, 21, 22, 23, 24, 26, 27, 29, 30 all the farm Ongegund No. 795-FT.

Remainder, Remainder of Portion 1, Remainder of Portion 10, Remainder of Portion 12, Remainder of Portion 16, Remainder of Portion 19 and Remainder of Portion 20 all of the farm Ongegund No. 795-FT.

Portion 1 and 4 of Lot 34 No. 866-FT.

Portion 2, 3, 7, 45, 67, 87, 116, 118, 122, 126, 130, 131, 140 of the Farm Stocklands and Oatlands No. 878-FT.

Remainder of Portion 120 of the Farm Stocklands and Oatlands No. 878-FT.

Portion 6, 8, 9, 10, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 26, 28, 29, 30, 31, 32, 33, 43, 47, 49, 50, 51, 53, 54, 63, 67, 68, 73, 74 and 79 of the Farm Riet Spruit No. 899-FT.

Remainder of Farm Riet Spruit No. 899-FT and Remainder of Portion 7 and 57 of the Farm Riet Spruit No. 899-FT.

Portion 2, 3, 7, 18 and 20 of the Farm Brookdales No. 935-FT.

Portions: 3, 5, 12, 12, 60, 98, 104, 117, 140, 177, 207, 208, 216, 257, 261, 262, 268, 270, 315, 316, 317, 319, 320, 321 and 322, all of Drie Fontein 952-FT.

Portion 10, 12, 13, 14, 15, 16, 17, 19, 18 and 75 of the Farm Wilde Als Spruit No. 1085-FT.

Portion 76 Of the Farm Riet Vallei No. 1206-FT.

Portion 2, 5, 4, 14, 18, 19, 20, 21, 22, 23, 26, 28, 29, 33, 30, 35, 36, 37, 38, 39, 41, 42, 52, 53, 54, 55, 57, 69, 72, 74, 75, 78, 82, 85, 89, 92, 93, 94, 95, 100, 101, 102, 104, 105, 106, 107, 108, 109, 110, 111, 113, 115, 116, 117, 118, 119, 120, 124, 125, 126, 128, 130, 132, 133, 134, 137, 139, 140, 141, 142, 143, 144, 145, 155, 161, 162, 163, 164, 166, 170, 172, 173, 174, 175, 176, 184, 186, 187, 188, 194, 195, 193, 197, 198, 199, 201, 202, 203, 204, 205, 206, 207, 208, 210, 211, 212, 213, 214, 215, 216, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 235, 236, 244, 245, 246, 247 of the Farm Gowrie No. 1930-FT.

Remainder, Remainder of Portion 1, 6, 10, 11, 13, 16, 58, 64, 66, 68, 70, 80, 81, 84, 86, 91, 138, 147, 183, 209, 226 of the Farm Gowrie No. 1930-FT.

Portion 1, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 23, 25, 29, 33, 32, 34, 57, 58, 64, 65, 75, 78, 79, 80, 81, 82, 83, 84, 87, 90, 91, 97, 100, 101, 102, 103, 105, 112, 113, 114, 115, 116, 120, 121, 122, 125, 136, 146, 148, 149, 164, 168, 169, 170, 171, 172, 173, 174, 176, 175, 177, 188, 192, 196, 199, 200, 202, 203, 204, 209, 210, 211, 212, 214, 247, 249, 253, of the Farm Spring Grove No. 2169-FS.

Remainder of Portion 20, 22, 27, 54, 191 and 145 of the Farm Spring Grove No. 2169-FS.

Portion 2, 3, 4 and 5 of Lot 50 all of Major Region-FT.

Portion 2, 5, 6, 7, 9, 10, 13, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 38, 39, 41, 46, 47, 50, 51, 52, 53, 57, 58, 60, 61, 62, 63, 64, 70, 78, 99, 101, 104, 105, 106, 107, 108, 109, 110, 111, 168, 169, 170, 171, 172, 173, 183, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315 and 316 of the Farm Hilton No. 12304-FT.

Remainder, Remainder of Portion 32, 40, 42, 43 and 49 of the Farm Hilton No. 12304-FT.

Farm Ila No. 13613-FT.

Portion 1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 31, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 84, 85, 86, 87, 89, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103 and 104 of the Farm No. 13814-FT.

Remainder, Remainder of Portion 6, 29 of the Farm No. 13814-FT.

Portion 22 of Arden 14074

Farm Umgeni Valley No. 15051-FT.

Portion 8 and 9 of the Farm Rosedene No. 15098-FT.

Portion 7, 8 and 9 of the Farm Hymany 15173-FT.

Portion 7 of the Farm Woodstock No. 15193-FT.

Remainder of the farm No. 15946-FT.

Portion 4 and 5 of the Farm Oatlands No. 16124-FT.

Remainder of Portion 2 of the Farm Oatlands No. 16124-FT.

Portion 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 60, 61, 62, of the Farm Bartholomew No. 16169-FT.

Farm Brookdale No. 16246-FT.

Farm Stackbarth No. 16270-FT.

Remainder and Portion 1, 2, 3, 4 and 5 of the Farm No. 16881-FT.

Remainder and Portion 1 and 2 of the Farm Nxamalala No. 17491-FT.

Remainder, Portion 1 and 2 of the Farm Amber Valley No. 17959-FT.

Farm Oatlands No. 17961-FT.

Farm Maryland No. 17961-FT.

Farm No. 18606-FT.

The properties to be included in the town planning scheme of Mpofana Local Municipality in KwaZul-Natal Province are as follows:

Portion 64, 324, 325, 326, 327 and 239 of the Farm Spring Vale 2170-FS.

Remainder of the Farm Three Springs No. 10995-FT.

Remainder of the Farm South View No. 11211-FT.

Erven 669 to 802 (All Major Region-FT).

The properties to be included in the town planning scheme of City of Cape Town Metro Municipality Western Cape Province are as follows:

Erven: 164 to 174, 177 to 224, 228 and 229, Cape.

Erven: 1 to 76, 79 to 1137, 1141 to 1161, 1163 to 1165, 1167 to 1519, 1527 to 1529, 1895, 1899 to 2487 and Re/2487, Malmesbury.

Erven: 1 to 20, Re/21, 22 to 38, Re/39, 30 to 474, Re/475, 476 to 485, 692, 702, 703, 707, 708, Re/1137, 1138, 1139, 1142 to 1193, 1195 to 1198, 1205, 1257, 1259, 1787 to 1792, 1806 to 1816, 2364 to 2368, 2448 to 2455, 2568, 2569, 2573 to 2575, 2652 to 2658, 2885, 3993, 4377, 4378, 4870, 4872, Re/4872, Re/4874, Re/4877, 4878 to 4884, RE/4881 to Re/4884, 4885 to 4888, RE/4888, RE/4889, 4889 to 4892, 5295 to 5307, 5466, 5777, 6309, 13466, 13467, RE/13469, 13476, 13477, 13479 to 13492, 13495, 13496, 13499 to 13511, 13514 to 13516, Re/14265 to 14273, 14285 to 14290, 14293, 14416, 14422, 14845, 15017, Re/15193 to Re/15194, 15195, 15621, 15812, 15844 to 15852, 16020, 16694, 16889 to 16898, RE/16896, 16902, 17039, 17040, 18030, 18031, 18386, 18396, 18397, 18450, 18451, 18770 and 19304, Stellenbosch.

Portion 8 and Remainder of Grootte Springfontein No. 1, Cape.

Remainder, Remainder of Portion 1, Portion 1 and Portion 5 of Witzand No. 2, Cape.

Portion 5 of Groote Springfontein No. 2, Cape.

Remainder, Remainder of Portion 3 and 6, Portion 1, 3 and 5 of Melkpost No. 3, Cape.

Portion: 1, 3, 5, 6, 8, 10, 11, 12, 14 to 19, 22, 24 to 29, 33, 35, 40, 43, 44, 48, 49, 58, 61, 62, 64, 65, 66, 69, 78 to 80, 82, 84 to 86, 93, 110, 112 to 115, 120, 122, 126 to 129, 131 to 133, 136, 140, 141, 144, 151, 159, 162, 164 to 166, 171, 175 to 178, 183, 206, 207, 209, 210, 212, 214, 215, 216, 218, 220 to 223 of Melkpost No. 4, Cape

Remainder of Portion: 11, 43, 44, 69, 93, 120 and 219 of Melkpost No. 4, Cape.

Portion 1, 2, 3 and Re/6 of Papekuil Outspan No. 6, Cape.

Portion 1 of Papekuil Outspan No. 6, Malmesbury.

Farm No. 7, Cape.

Mission Lot 8, Cape.

Della Annex No. 10, Cape.

Remainder and Portion 1 of Farm No. 12, Cape.

Remainder of farm No. 13, Cape.

Remainder and Portion 1 of Farm No. 14, Cape.

Portion 9 of Klein Dassenberg No. 20, Cape.

Portion 1 to 8, 14, 17 to 20 and 23 of Vogelvllei No. 21, Cape.

Remainder of Portion 9 to 12 of Vogelvllei No. 21, Cape.

Portio 27 to of Kleine Springfontyn No. 33, Cape.

Remainder, Portion 2, 7 to 11, 14, 22, 24, 28, 31 and 33 of Dassenvaley No. 45, Cape.

Portion 11 of Klipheuwel Annex No. 52, Cape.

Portion 1 of Farm No. 53, Cape.

Portion 13, 14, 16, 17, 20 and 26 of Vryheid No. 55, Cape.

Remainder, Remainder of Portion 1, Remainder of Portion 3, Portion 2, 4 to 6, 8 and 10 of Radio No. 56, Cape.

Remainder of Groot Oliphants Kop No. 81.

Remainder, Portion 2, 5 and 6 of Farm No. 88.

Portion 2 and 6 of Blaauwe Berg No. 89, Cape.

Remainder and Portion 2 of Blaauwe Berg No. 91, Cape.

Remainder, Portion 1 to 3 of Klein Melkbosch No. 94, Cape.

Remainder, Portion 1, 4 and 5 of Farm No. 101, Cape.

Road station No. 140, Cape.

Remainder, Remainder of Portion 6 and Remainder of Portion 21 of Morning Star No. 141, Cape.

Portion 5 to 23, 25 to 27, 29, 34, 35, 37, 41 to 46, 51 to 67, 73, 75 to 83 of Morning Star No. 141, Cape.

Remainder of Portion 18, Remainder of Portion 20, Portion 2, 3, 14 to 17, 19, 21 to 35 of Farm No. 152, Cape.

Vissershok Outspan No. 153, Cape.

Remainder and Remainder of Portion 1 of Farm No. 224, Cape.

Remainder of Portion 1 and 2, Portion 7, 10 and 11 of Van No. 431, Cape.

Remainder and Portion 2 of Farm No. 544, Cape.

Remainder of Vergenoegd No. 547, Cape.

Remainder and Portion 8 of Farm No. 631, Stellenbosch.

Remainder of Farm No. 648, Cape.

Remainder, Remainder of Portion 12, Portion 1 to 3 and 19, of Vergenoegd No. 653, Cape.

Portion 5 of Croydon No.654, Cape.
Portion 3, 8 to 10, 14, 24, 26 and 28 of Croydon No.654, Stellenbosch.
Portion 14, 15 of Farm No. 659, Cape.
Portion 25 to 27 of Farm No. 659, Stellenbosch.
Portion 1, 48, 84, 85, 105, 110, 117 and 118 of Zandvliet No. 664, Stellenbosch.
Remainder of Drift Sands No .789, Stellenbosch.
Farm No. 790, Stellenbosch.
Remainder of Portion 44, 53, 56, 77 and 128 of Farm No. 794, Cape.
Portion 25, 34, 53, 70 to 76, 79 to 85, 108, 113, 119, 128 to 132 and 134 of Farm No. 794, Stellenbosch.
Portion 4 of Farm 843, Stellenbosch.
Remainder of Portion 66, Remainder of Portion 86, Portion 3 to 17, 20 to 34, 36 and 41 to 109 of Farm No. 843, Stellenbosch.
Remainder and Portion 1 of Outspan No. 849, Stellenbosch.
Farm No. 856, Stellenbosch Stellenbosch.
Farm No. 857, Stellenbosch.
Portion 1 and 2 of Farm No. 860, Stellenbosch.
Remainder of Outspan No. 866, Stellenbosch.
Remainder of Farm No.866, Stellenbosch.
Remainder of Farm No. 869, Stellenbosch.
Portion 2 of Goede Verwachting No. 870, Stellenbosch.
Farm No. 871, Stellenbosch.
Farm No. 878, Stellenbosch.
Farm No. 879, Stellenbosch.
Farm No. 880, Stellenbosch.
Remainder of Farm No. 881, Stellenbosch.
Rockery No. 882, Stellenbosch.
Rockery No.883, Stellenbosch.
Farm No. 884, Stellenbosch.
Portion 2 of Farm No. 884, Stellenbosch.
Portion 1 of Outspan No. 886, Stellenbosch.
Remainder of Outspan No. 891, Stellenbosch.
Remainder and Portion 1 of Outspan No. 892, Stellenbosch.
Remainder of Outspan No. 893, Stellenbosch.
Remainder and Portion 1 of Outspan No. 895, Stellenbosch.
Outspan No. 896, Stellenbosch.
Outspan No. 897, Stellenbosch.
Remainder and Portion 1 of Outspan No. 898, Stellenbosch.
Remainder, Portion 1 and 2 of Outspan No.8 99, Stellenbosch.
Remainder and Portion 1 Farm No. 900, Stellenbosch.
Toll House Lot 901, Stellenbosch.
Farm No. 902, Stellenbosch.
Farm No. 903, Stellenbosch.
Farm No. 906, Stellenbosch.
Remainder of Portion 24, Remainder of Portion 40, Portion 16 to 18, 20, 21, 23 to 38, 40 to 43, 53, 58, 111 to 116, 124 to 126, 129, 141, 147 to 152, 157 to 162, 166 to 169, 203 to 212, 228 to 245, 275, 290, 291, 327, 328, 331 to 333 of Firland No. 959, Stellenbosch.
Remainder of Groenekloof No. 971, Malmesbury.
Mamre Reserve No. 972, Malmesbury.
Remainder of Mamre Reserve No. 974, Malmesbury.
Remainder of Farm No. 975, Cape.
Portion 1 of Farm No. 975, Stellenbosch.
Remainder of Mamre Reserve No. 975, Malmesbury
Remainder of and Portion 1 of Cruywagenskraal No. 977, Malmesbury
Remainder, Portion 1 to 3 of Farm No. 978, Malmesbury

Farm No. 979, Malmesbury
Remainder of Buffelsrivier No. 980, Cape
Cravensgift No.981, Buffelsrivier No. 981, Malmesbury.
Remainder, Portion 1 and 4 of Farm No. 982, Malmesbury.
Remainder of Mamre Reserve No. 984, Malmesbury.
Farm No. 1041, Stellenbosch.
Remainder, Portion 2 and 3 of Farm No. 1054, Stellenbosch.
Remainder, Portion 2 and 4 of Greystones No.1061, Stellenbosch.
Portion 2 to 25 of Kleine Zoute Rivier No. 1063, Cape.
Farm No. 1082, Stellenbosch.
Farm No. 1093, Malmesbury.
Remainder, Portion 1 to 3 of Blaauwklip No.1150, Stellenbosch.
Remainder, Remainder of Portion 4, 33, 117 and 128, Portion 1, 3 4, 6, 8, 11 to 14, 24 to 27, 33, 37, 38, 40, 42 to 45, 47 to 52, 54 to 60, 62 to 70, 72, 74, 75, 77, 78, 86 to 88, 91 to 99, 102 to 104, 107, to 109, 112, 116, 119, 122, 125 to 129, 132 to 134, 136, 141, 143, 145 to 153, 157, 158, 162 to 165, 169 to 171, 174, 177, 181, 183, 186, 188, 190, 193 to 195, 199, 200, 202 to 206, 209, 212, 214, 215 and 217 of Farm No.1183, Cape.
Farm No. 1184, Cape.
Farm No. 1262, Stellenbosch.
Remainder and Portion 1 Farm 1309, Stellenbosch.
Farm No. 1393, Cape.
Outspan No, Stellenbosch.
Remainder and Portion 1 of Farm No. 1502, Cape.
Farm No. 1504, Cape.
Melkpost No. 1507, Cape.
Farm No.1519, Stellenbosch.
Farm No.1531, Cape, Cape.
Portion 1 Farm No. 1543
Remainder of Farm No. 1543, Cape.
Farm No. 1547, Cape.

The properties in individual areas to be included in the town planning scheme of Swartland Local Municipality Western Cape Province are as follows:

Abbotsdale

Remainder of Tweefonteinen 696, Malmesbury RD.
Remainder of Portion 15 of Olyphants Fonteyn 766, Malmesbury RD.
Remainder of Portion 8, 10, 14 and Portion 9, 19, 20 to 22 of Olyphants Fontyn 766, Malmesbury.
Remainder of Farm 771, Malmesbury.
Remainder, Remainder of Portion 1, 2 and 3 of Farm 1113, Malmesbury.

Moreesburg

Erven: 3715, 4156 to 4285, 4288 to 5553, Malmesbury.

Ongegund

Remainder, Portion 1 and 3 of Ongegunde 508, Malmesbury.

Riebeeckasteel

Portion 4 of Allesverloren 641, Malmesbury.
Remainder and Portion 11 of Botmas Kloof 661, Malmesbury.
Remainder and Portion 2 to 11 of Klein Deel 668, Malmesbury.

Yzersfontein

Remainder, Portion 28 and 40 of Yzerfontein 560, Malmesbury.
Erven: 2703, 2130, 2132 and Re/ 2131 (Yzerfontein 560), Malmesbury.

The properties of individual areas to be included in the town planning scheme of Stellenbosch Local Municipality in Western Cape Province of are as follows:

Franshoek

Mooi Water 1073, Paarl.
Farm 1076, Paarl.
Vrede 1080, Paarl.
Farm 1413, Paarl.
Farm 1586, Paarl.
Farm 1658, Paarl.
Goede Rust 1706, Paarl.

Klapmuts

Portion 3 (Paarl RD), Portions: 5, 27 and 31 (Paarl), all of the farm Groenfontein Annex 716, Paarl.
Remainder of the farm Groenfontein Annex 717, Paarl RD.
Remainder of the farm Groenfontein Annex 744, Paarl RD.
Portions: 1 (Paarl RD), Portions: 2, 3, 4, 11, 12,13,14, 15, 16, 17, 18, 19, 20, 21, 22, 30 and 34 (Paarl), all of the farm Bronkhorst 748, Paarl.
Klapmuts School 752 to 757 and 768.
Remainder and Portions: 1 to 3, all of Klapmuts School 758.

Lamotte

Remainder of Portion 3, Portions: 3 and 27, all of Lamotte 1041, Paarl.
Portion 1 of Keyersdrift 1158, Paarl.
Remainder of Farm 1339, Paarl RD.
Portion 3 of Farm 1339, Paarl.
Farm 1653, Paarl.
Remainder of 1653, Paarl.

Lyndoch

Remainder Welmoed Estate 468 (Stellenbosch RD) and Portions: 3, 4, 27, 41, 51 and 52, all of Welmoed Estate 468, Stellenbosch.

PnielLanquedockylemore

Portion 4 of Old Bethlehem 153, Stellenbosch.
Portions 6 and 9, all of Rhonen and Lanquedoc 1173, Paarl.
Portion 1 of Langedok 1176, Paarl.
Farm 1357, Paarl.
Portion 2 of Farm 1647, Paarl.
Remainder of Farm 1649, Paarl RD.

Raithby

Erven 1 to 98, 121, 123, 145, 148, 150, 154 to 156, 166, 167, 248, 249, 252, 253, 255 to 257, 288 to 290, 298, 329, 330 to 347, 353 to 373 and 379, to 405, Stellenbosch.

Wemmershoek

Remainder and Portion 3 of farm 1025, Paarl.
Portion 1 of Wemmershoek Outspan South 1027, Paarl.
Wemmershoek Cemetery 1028, Paarl.
Wemmershoek Public School 1029, Paarl.
Portion 4 of Farm 1615, Paarl.
Remainder (Paarl) and Remainder of Portion 3 (Paarl RD) of Farm 1615.

Stellenbosch

Portions 4, 8 and 29 of Cloetesdal 81.

Remainder of Portion 22 and Remainder, all of Weltevreden 82.

Remainder of Patrysen Valley 85.

Farm 103.

Portion 1 of Farm 119.

Portion 1 of Lindani 167.

Remainder, Portions 1 and 2, al of Retreat & The Willows 168.

Remainder and Remainder of Portion 1, all of Watergang 182.

Remainder, Remainder of Portion 3, Remainder of Portion 5 and Portions: 7, 10, 22, 23, 36, 37, 52, 60, 65 and 71, all of Grootvlei 183.

Sunirac 184.

Portion 2 of Morgenster 203.

Veldwachters Rivier Outs 280.

Vredenburg 281, Remainder of Vredenburg 283 and Remainder of Vredenburg 284.

Remainder and Portion 1 of Drodyke 284.

Remainder and Portions: 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 552, 38, all of Blaauwklip 510.

Remainder of Groote Zalse 998.

Farm 1168.

Farm 1310.

Farm 1357, Remainder of Farm 1514.

Portion 1 to 4 of Farm 1514.

The Department can be contacted on LydiaB@daff.gov.za or MashuduMa@daff.gov.za (012) 319 7686/7619 or alternatively Private Bag X120, PRETORIA, 0001

Note: As per the requirements of the Spatial Data Infrastructure Act, Act 54 of 2003 the office of the Chief Surveyor General has been appointed as the dataset coordinator and the mentioned data was used to derive the exclusion list (Tag Value).

DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES

NOTICE 627 OF 2018

MARKETING OF AGRICULTURAL PRODUCTS ACT, 1996
(ACT No. 47 OF 1996)**ESTABLISHMENT OF STATUTORY MEASURE: REGISTRATION OF MACADAMIA NURSERIES, GROWERS, PROCESSORS, CONSOLIDATORS OF NUT IN SHELL, IMPORTERS AND EXPORTERS OF MACADAMIA NUTS**

I, Senzeni Zokwana, Minister of Agriculture, Forestry and Fisheries, acting under sections 13 and 19 of the Marketing of Agricultural Products Act, 1996 (Act No. 47 of 1996), hereby establish the statutory measure set out in the Schedule.

SENZENI ZOKWANA,
Minister of Agriculture, Forestry and Fisheries.

SCHEDULE

Definitions

1. In this Schedule any word or expression to which a meaning has been assigned in the Act shall have that meaning, unless the context indicates otherwise:

“address” means the physical address where business is conducted, whether at a home, farm or other premises.

“exporter” means any person that exports macadamias for his own account or, acts as agent on behalf of producers and/or processors or packers of macadamia nuts.

“grower” is synonymous with **“producer”** and means any person engaging, in a proprietary capacity, in the commercial production of macadamia inclusive of persons or concerns who process and produce macadamia nuts, trades with macadamia nuts, husks, kernels or in-shell or who grows and sells macadamia trees.

“importer” means an entity which imports macadamias into South Africa for processing,

CONTINUES ON PAGE 258 - PART 3



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retail distribution or export and includes persons organising imports on behalf of or in the name of another person.

"kernel" means the edible seed of the macadamia.

"macadamias" means the fruits of the macadamia nut tree species, whether nut in shell or kernel.

"macadamia industry" means all participants and role players in the South African macadamia industry.

"macadamia nursery" means any person involved in the production of macadamia nut nursery trees, either for own use or sale for commercial gain.

"Nut in shell consolidator" means a person that receives macadamia nuts from growers for the purpose of preparing and packing for sale as nut in shell. This definition includes persons that buy nut in shell from growers and /or act as agents for the sale of nut in shell. Growers that sell their own production of nut in shell directly to traders are also included in this definition.

"person" means an individual, partnership, company, association or any other business unit.

"processor" means a person that sorts, cleans, cracks and processes macadamias, excluding growers that dehusk and dry their own macadamia nut production on farm.

"SAMAC" means Macadamias South Africa Non-Profit Company with registration number 2017/656242/08.

"The Act" means the Marketing of Agricultural Products Act, 1996 (Act no. 47 of 1996).

Purpose and aims of statutory measure and the relation thereof to objectives of the Act

2. The purpose and aims of this statutory measure is to compel the parties set out herein to register with the Macadamias South Africa NPC (SAMAC). Registration is necessary to assist the South African macadamia nut industry in ensuring that continuous, timeous and accurate information relating to the industry is available to all role players. Such information is deemed essential for all role players in order for them to make informed decisions. By combining compulsory registration with the keeping of information and the rendering of returns on an individual basis, generic information for the whole industry can be processed and disseminated and will form the basis for the collection of levies where applicable and appropriate.

The establishment of the measure would assist in promoting the efficiency of the production and marketing of macadamias. The viability of the macadamia industry will thus be enhanced. The measure will not be detrimental to the number of employment opportunities and fair labour practice.

The measure, as set out in this Schedule will be implemented and administered by SAMAC.

Products to which the statutory measure applies

3. This statutory measure shall apply to macadamia nuts in-shell, kernels and macadamia trees both in the field and in the nursery.

Area in which measure shall apply

4. This measure shall apply in the geographical area of the Republic of South Africa.

Registration of parties concerned

5. (1) All growers, nurseries, processors, nut in shell consolidators, importers and exporters of macadamias shall register with SAMAC in the manner prescribed in clause 6.
- (2) Each person becoming a grower, nursery, processor, nut in shell consolidator, importer or exporter of macadamias shall register with SAMAC within 30 days of becoming a grower, nursery, processor, nut in shell consolidator, importer or exporter of macadamias.
- (3) Persons whose activities are classified under more than one of the categories mentioned in clauses 5. (1) and 5. (2) shall register separately under each category. For example, a grower that dries and packages his own nut in shell for sale to a trader, shall register both as a grower and a nut in shell consolidator.
- (4) Growers, nurseries, processors, nut in shell consolidators, exporters and importers shall declare an address for each farm, nursery, processing facility, warehouse etc. where macadamias are kept.
- (5) Growers, nurseries, processors, nut in shell consolidators, exporters and importers that are not members of SAMAC in the specific appropriate categories of membership, such as handler member (processors, nut in shell consolidators), associate members, and grower members shall re-register annually before 31 January. In the case of a company, the Memorandum of Incorporation must be sent to SAMAC to accompany the registration. In the case of a Trust, the Letter of Authority issued by the Master of the High Court where the Trust is registered must be supplied to SAMAC to accompany the registration.

Registration

6. Registration shall –

- (1) be made within 30 days of the commencement of this statutory measure, and in the case of a person becoming a party as contemplated in clause 5 after

such date of commencement, within 30 days of becoming such a party.

- (2) be made on the application form obtainable free of charge from SAMAC:
- (3) be submitted, when forwarded by post, to –
SAMAC
Private Bag X180
Centurion
0046
- (4) when delivered by hand, be delivered to –
SAMAC c/o AgriSA Inkwazi Building,
Block A,
1249 Embankment Road,
Zwartkop X7
Pretoria
- (5) when sent by telefax, be sent to –
+27 (0)86 612 9077
- (6) when sent by email, be sent to –
info@samac.org.za
- (7) alternatively, be made online, on the SAMAC website www.samac.org.za

Failure to comply with the statutory measure in this schedule

- 7. Upon failure to comply with the statutory measure as set out in this schedule resulting in legal steps to enforce the provisions of the regulations, the specific entity or person not complying to the said measures would be liable for the legal costs, on the scale as between attorney and own client.

Commencement and period of validity

- 8. This statutory measure shall come into operation on 15 November 2018 and shall lapse 4 years later.

DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES

NOTICE 628 OF 2018

MARKETING OF AGRICULTURAL PRODUCTS ACT, 1996

(ACT No. 47 OF 1996)

ESTABLISHMENT OF STATUTORY MEASURE: RECORDS AND RETURNS RELATING TO MACADAMIA TREES AS WELL AS DOMESTIC PRODUCTION, PROCESSING, IMPORTS AND EXPORTS OF MACADAMIA NUTS

I, Senzeni Zokwana, Minister of Agriculture, Forestry and Fisheries, acting under sections 13 and 18 of the Marketing of Agricultural Products Act, 1996 (Act No. 47 of 1996), hereby establish the statutory measure set out in the Schedule.

SENZENI ZOKWANA,
Minister of Agriculture, Forestry and Fisheries.

SCHEDULE

Definitions

1. In this Schedule any word or expression to which a meaning has been assigned in the Act shall have that meaning, unless the context indicates otherwise:

“address” means the physical address where business is conducted, whether at a home, farm or other premises.

“contact details” means the name and surname, cellular telephone number, landline number(s) and where applicable email address of an individual, business or entity.

“exporter” means any person that exports macadamias for his own account or, acts as agent on behalf of producers and/or processors or packers of macadamia nuts.

“geographic region” means country of origin or destination, or South African province, or a sub-region of a province where otherwise indicated such as the Northern or Southern part of a province, for instance KwaZulu-Natal North Coast.

“grower” is synonymous with **“producer”** and means any person engaging, in a

proprietary capacity, in the commercial production of macadamias inclusive of persons or concerns who process and produce macadamia nuts, trades with macadamia nuts, husks, kernels or in-shell or who grows and sells macadamia trees.

“importer” means an entity which imports macadamias into South Africa for processing, retail distribution or export and includes persons organising imports on behalf of or in the name of another person.

“inspector” means an inspector appointed by the Minister of Agriculture, Forestry and Fisheries in terms of section 21 of the Marketing of Agricultural Products Act, Act no 47 of 1996.

“kernel” means the edible seed of the macadamia.

“macadamias” means the fruits of the macadamia nut tree species, whether nut in shell or kernel.

“macadamia industry” means all participants and role players in the South African macadamia industry.

“macadamia nursery” means any person involved in the production of macadamia nut nursery trees, either for own use or sale for commercial gain.

“Nut in shell consolidator” means a person or business that receives macadamia nuts from growers for the purpose of preparing and packing for sale as nut in shell. This definition includes persons that buy nut in shell from growers and /or act as agents for the sale of nut in shell. Growers that sell their own production of nut in shell directly to traders are also included in this definition.

“person” means an individual, partnership, company, association or any other business unit.

“processor” means a person or business that sorts, cleans, cracks and processes macadamias, excluding growers that dehusk and dry their own macadamia nut production on farm.

“SAMAC” means Macadamias South Africa Non-Profit Company with registration number 2017/656242/08.

“The Act” means the Marketing of Agricultural Products Act, 1996 (Act no. 47 of 1996).

“written requests” means requests made by email, documents, letters via post or letters delivered by hand, to the addresses provided to SAMAC at the time of registration as per the relevant Government Gazette Notice relating to registration, or to any other relevant address that SAMAC becomes aware of.

Purpose and aims of this statutory measure and the relation thereof to objectives of the Act

2. The purpose and aims of this statutory measure is to compel the parties set out herein to keep records and render returns to SAMAC. This is necessary to ensure that continuous, timeous and accurate information relating to the products as defined, is available to all role players in the South African macadamia nut industry. Such information is deemed essential for all role players in order for them to make informed decisions. By prescribing the keeping of records with the rendering of returns on an individual basis, import, domestic market, export and production information of macadamias can be processed and disseminated. In cases where information of individual persons is deemed sensitive, only aggregated information will be disseminated in order to keep the information of individuals confidential.

The establishment of the measure will assist in promoting the efficiency of the marketing of macadamia nuts. The viability of the macadamia industry should thus be enhanced. The measure will not be detrimental to the number of employment opportunities or fair labour practice. Any information obtained will be dealt with in a confidential manner and no sensitive client-specific information will be made available to any party without the prior approval of the party whose rights may be affected.

The measure, as set out in this Schedule will be implemented and administered by SAMAC.

Products to which the statutory measure apply

3. This statutory measure shall apply to macadamias, both locally produced and imported, as well as macadamia trees.

Area in which measure shall apply

4. This measure shall apply in the geographical area of the Republic of South Africa.

Records to be kept and returns to be rendered

5. (1) The following parties shall keep records and furnish returns to SAMAC, its inspectors or the South African Police Service as may be required by written requests, with regard to macadamia nuts and macadamia trees:
- (a) Nurseries.
 - (b) Growers.
 - (c) Processors.
 - (d) Nut in shell consolidators.
 - (e) Importers.
 - (f) Exporters.

- (2) Records and returns shall in the case of **nurseries**, contain information with regard to the following:
 - (a) Number of trees produced in a given period;
 - (b) Rootstocks;
 - (c) Scion cultivars; and
 - (d) Geographic distribution of tree sales.
- (3) Records and returns shall in the case of **growers**, contain information with regard to the following:
 - (a) Number of trees planted;
 - (b) Number of hectares planted;
 - (c) Tree age;
 - (d) Rootstocks;
 - (e) Scion cultivars;
 - (f) Presence or absence of irrigation systems;
 - (g) Crop estimates;
 - (h) Total volume of inshell macadamias and kernel delivered to nut in shell consolidators, processors and exporters; and
 - (i) Contact details of the nut in shell consolidators, processors and exporters where macadamias were delivered to.
- (4) Records and returns shall in the case of **Processors**, contain information with regard to the following:
 - (a) Carryover stock from previous seasons;
 - (b) Forecast intake of nut in shell for a given period by geographic region;
 - (c) Actual intake of nut in shell for a given period;
 - (d) Forecast kernel production of various styles for a given period;
 - (e) Kernel stock of various styles not committed for sale for a given period;
 - (f) Nut in shell shipments with corresponding volumes per geographic region for a given period;
 - (g) Kernel shipments with corresponding volumes per geographic region for a given period;
 - (h) Sound kernel production;
 - (i) Details of factors leading to unsound kernel;
 - (j) Nut in shell intake by geographic region;
 - (k) Kernel intake by geographic region;
 - (l) Contact details and address of individuals and/or suppliers of nut in shell and their corresponding total deliveries of nut in shell;
 - (m) The contact details and address of individual growers and / or suppliers of kernel and their corresponding total deliveries of kernel;
 - (n) In the instance where kernel is bought or received from growers, processors, individuals or other parties, contact details and address of such suppliers of kernel, as well as confirmation by means of an affidavit

or warranty that the due levies were paid to SAMAC on the specific consignment of kernel before cracking and processing; and

- (o) In the instance where inshell macadamia is bought or received from entities other than growers, such as processors, nut in shell consolidators, individuals or other parties, contact details and address of such suppliers of inshell macadamias, as well as confirmation by means of an affidavit or warranty that the due levies were paid to SAMAC on the specific consignment of macadamias.

Processors shall be audited annually by an accounting firm registered with a professional body and confirmation from the said firm provided to SAMAC that the nut in shell and kernel intake volumes declared to SAMAC for the previous calendar year, are true and correct. Such confirmations shall include warranties and/or affidavits referred to in sub-clauses 4 (n) and (o) and be submitted to SAMAC before 30 June of each year.

- (5) Records and returns shall in the case of **nut in shell consolidators**, contain information with regard to the following:
 - (a) Carryover stock from previous seasons;
 - (b) Forecast intake of nut in shell for a given period by geographic region;
 - (c) Intake of nut in shell for a given period;
 - (d) Nut in shell shipments with corresponding volumes per geographic region for a given period;
 - (e) Nut in shell stock not committed for sale for a given period;
 - (f) Nut in shell intake by geographic region;
 - (g) Kernel intake by geographic region;
 - (h) Contact details and address of individual growers and / or suppliers of nut in shell and their corresponding total deliveries of nut in shell;
 - (i) Contact details and address of individual growers and / or suppliers of kernel and their corresponding total deliveries of kernel;
 - (j) In the instance where kernel is bought or received from growers, processors, individuals or other any parties, contact details and address of such suppliers of kernel, as well as confirmation by means of an affidavit or warranty that the due levies were paid to SAMAC on the specific consignment of kernel before cracking and processing; and
 - (k) In the instance where inshell macadamias is bought or received from entities other than growers, such as processors, nut in shell consolidators, individuals or other any parties, contact details and address of such suppliers of inshell macadamias, as well as confirmation by means of an affidavit or warranty that the due levies were paid to SAMAC on the specific consignment of macadamias.

Nut in shell consolidators shall be audited annually by an accounting firm registered with a professional body and confirmation from the said firm

provided to SAMAC that the nut in shell and kernel intake volumes declared to SAMAC for the previous calendar year, are true and correct. Such confirmations shall include warranties and/or affidavits referred to in sub-clauses 5 (j) and (k) and be submitted to SAMAC before 30 June of each year.

- (6) Records and returns shall in the case of **importers**, contain information with regard to the following:
 - (a) Volume of nut in shell imported in a given period;
 - (b) Volume of kernel imported in a given period; and
 - (c) Country of origin of imports.
- (7) Records and returns shall in the case of **exporters**, contain information with regard to the following:
 - (a) Volume of nut in shell exported in a given period;
 - (b) Volume of kernel exported in a given period;
 - (c) Country of destination of exports;
 - (d) Contacts details and address of sources of nut in shell obtained for export with the respective corresponding volumes; and
 - (e) Contacts details and address of sources of kernel obtained for export with the respective corresponding volumes.
- (8) The National Department of Agriculture, Forestry and Fisheries or its assignee shall render a copy of all import certificates or furnish the information required by SAMAC contained in such certificates within the period specified in sub-clause (9).
- (9) The Department of Agriculture, Forestry and Fisheries, the Perishable Products Export Control Board or any other assignee of the Department of Agriculture Forestry and Fisheries mandated to carry out export and/or local inspections shall render information relating to specific importers, exporters, processors and nut in shell consolidators and the respective import or export volumes of all macadamia products, including kernel and nut in shell, to SAMAC.
- (10) The records referred to in sub-clauses (2) – (7) shall be rendered, on forms obtainable free of charge from SAMAC, within 20 days after the end of the month in which the returns have been requested, unless a period of greater than 20 days is specified by SAMAC.

Forms shall be submitted,

- (a) when forwarded by post, to –
SAMAC
Private Bag X180
Centurion

0046

- (b) when delivered by hand, be delivered to –
SAMAC c/o AgriSA Inkwazi Building,
Block A,
1249 Embankment Road,
Zwartkop X7
Pretoria
- (c) when sent by telefax, be addressed to –
+27 (0)86 612 9077
- (d) when sent by email, addressed to –
info@samac.org.za

Failure to comply with the statutory measure in this schedule

6. Upon failure to comply with the statutory measure as set out in this schedule resulting in legal steps to enforce the provisions of the regulations, the specific entity or person not complying to the said measures would be liable for the legal costs, on the scale as between attorney and own client.

Commencement and period of validity

7. This statutory measure shall come into operation on 15 November 2018 and shall lapse 4 years later.

DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES

NOTICE 629 OF 2018

MARKETING OF AGRICULTURAL PRODUCTS ACT, 1996
(ACT No. 47 OF 1996)**ESTABLISHMENT OF STATUTORY MEASURE AND DETERMINATION OF LEVIES
ON MACADAMIA NUTS**

I, Senzeni Zokwana, Minister of Agriculture, Forestry and Fisheries, acting under sections 13 and 15 of the Marketing of Agricultural Products Act, 1996 (Act No. 47 of 1996), hereby-

- (a) establish the statutory measure set out in the schedule hereto;
- (b) determine the guideline price for macadamias (recent average domestic growers' selling price, dry nut in shell, 1.5% moisture), as R75.58 per kg.

SENZENI ZOKWANA,
Minister of Agriculture, Forestry and Fisheries.

SCHEDULE

Definitions

1. In this Schedule any word or expression to which a meaning has been assigned in the Act shall have that meaning, unless the context indicates otherwise:

“DNIS” means dry nut in shell at a kernel moisture content at 1.5%.

“exporter” means any person that exports macadamias for his own account or, acts as agent on behalf of producers and/or processors or packers of macadamia nuts.

“grower” is synonymous with **“producer”** and means any person engaging, in a proprietary capacity, in the commercial production of macadamias inclusive of persons or concerns who process and produce macadamia nuts, trades with macadamia nuts, husks, kernels or in-shell or who grows and sells macadamia trees.

“importer” means an entity which imports macadamias into South Africa for processing, retail distribution or export and includes persons organising imports on behalf of or in the name of another person.

“inspector” means an inspector appointed by the Minister of Agriculture, Forestry and Fisheries in terms of section 21 of the Marketing of Agricultural Products Act, Act no 47 of 1996.

“kernel” means the edible seed of the macadamia.

“macadamias” means the fruits of the macadamia nut tree species, whether nut in shell or kernel.

“macadamia industry” means all participants and role players in the South African macadamia industry.

“Nut in shell consolidator” means a person that receives macadamia nuts from growers for the purpose of preparing and packing for sale as nut in shell. This definition includes persons that buy nut in shell from growers and / or act as agents for the sale of nut in shell, and act as agents or contractors for dehushing of nut in shell. Growers that sell their own production of nut in shell directly to traders are also included in this definition.

“person” means an individual, partnership, company, association or any other business unit.

“processor” means a person that sorts, cleans, cracks and processes macadamias, excluding growers that dehush and dry their own macadamia nut production on farm.

“SAMAC” means Macadamias South Africa Non-Profit Company with registration number 2017/656242/08.

“The Act” means the Marketing of Agricultural Products Act, 1996 (Act no. 47 of 1996).

Purpose and aims of statutory measure and the relation thereof to objectives of the Act

2. The purpose and aims of this statutory measure is to provide financial support for the following in the interests of the South African macadamia industry as a whole:
 - (a) Collection, processing and dissemination of reliable production and market information;
 - (b) Production, post-harvest, product and market research;
 - (c) Technology transfer;
 - (d) Determination of quality standards;
 - (e) Stimulation of consumption of macadamia nuts;
 - (f) Liaison with local and international governments, organisations and interested groups;
 - (g) Promotion of co-operation between growers, handlers, processors and other industry role players;

- (h) Promotion of market access including gaining, retaining and optimising markets;
- (i) Facilitation of transformation within the industry;
- (k) Medical and other research to promote the health aspects of macadamia nut consumption;
- (l) Benchmarking and determination of best practice; and
- (m) Determining the impact of theft on the industry;

The measure will not be detrimental to the number of employment opportunities or fair labour practice.

The measure will be administered by Macadamias South Africa Non-Profit Company (SAMAC)

Products to which the statutory measure applies

3. This measure shall apply to macadamia nuts in-shell, kernels and macadamia trees both in the field and in the nursery;

Area in which measure shall apply

4. This measure shall apply in the geographical area of the Republic of South Africa.

Imposition of levy

5. A levy is hereby imposed on all inshell macadamia nuts received, from a grower, by a processor or consolidator of nut in shell.

Amount of levy

6. The amount of the levy shall be as follows (excluding VAT):

Period	14 Nov 2018 - 13 Nov 2019	14 Nov 2019 - 13 Nov 2020	14 Nov 2020 - 13 Nov 2021	14 Nov 2021 - 13 Nov 2022
Rate/kg DNIS	R0.50	R0.56	R0.62	R0.68

Persons by whom the levy shall be payable

7. (1) The levy imposed under clause 5 shall –
- (a) be payable by any processor or consolidator of nut in shell that receives inshell macadamias from a grower, regardless of whether such a processor, consolidator of nut in shell or exporter buys the macadamias from the grower or acts as a marketing agent.
 - (b) be a grower's levy, deducted from the grower's returns by the processor, importer, exporter or consolidator of nut in shell.
 - (c) inclusive of persons or concerns who process and produce

macadamia nuts, trades with macadamia nuts, husks, kernels or in-shell or who grows and sells macadamia trees.

- (d) be payable by processors, nut in shell consolidators and exporters in the instance where kernel is received from other processors, nut in shell consolidators or exporters and no guarantee is received by means of an affidavit or warranty that a levy has not been paid on the specific consignment. In such instances a levy shall be determined by converting the kilograms of kernel to an inshell basis by dividing the kilograms of kernel by 0.3 and applying the levy as stated in clause 5. This amount shall be deducted and paid over to SAMAC by the processor, nut in shell consolidator or exporter on behalf of the person supplying the kernel, which is equal to the levy as stated in clause 5 for nut in shell at a kernel recovery of 30%.
- (2) It is the responsibility of the grower to ensure that a levy is deducted and paid over to SAMAC, although a processor, nut in shell consolidator, exporter or importer can also be held liable.
- (3) In the instance of a dispute on the definition, classification or responsibility of an entity, the inspector shall make the determination on who is responsible for the payment of the levy.

Payment of levy

- 8. (1) Payment of the levy shall be made not later than ninety (90) days following the month end wherein a quantity of macadamias was delivered.
- (2) Payment shall be made by means of a cheque or electronic transfer in favour of SAMAC, and shall –
 - (a) when paid by cheque, be addressed to –
SAMAC
Private Bag X180
Centurion
0046
 - (b) when delivered by hand, be delivered to –
SAMAC c/o AgriSA Inkwazi Building,
Block A,
1249 Embankment Road,
Zwartkop X7
Pretoria
 - (c) when electronically transferred, be paid to the bank account obtainable from SAMAC on request.

Administration of levies

9. The statutory measure shall be administered by SAMAC. Approximately 70% of levy income will be spent on core activities (such as research, information functions and stimulation of demand for macadamias), not more than 10% will be spent on administration of levies and at least 20% on transformation. The levies shall be accounted for in a manner and to the extent acceptable to the Auditor-General, separately from other funds or assets under the control of SAMAC. Annual audited financial statements will be submitted to the National Agricultural Marketing Council and the Auditor-General, with the percentage allocated towards transformation clearly indicated and accompanied by a report stating how the objectives of the levy have been met. Any deficit at the date of termination of this statutory measure shall be for the account of SAMAC. The Minister of Agriculture, Forestry and Fisheries shall decide on the application of any surplus levies at the date of termination of the statutory measure.

Failure to comply with the statutory measure in this schedule

10. Upon failure to comply with the statutory measure as set out in this schedule resulting in legal steps to enforce the provisions of the regulations, the specific entity or person not complying to the said measures would be liable for the legal costs, on the scale as between attorney and own client.

Commencement and period of validity

11. This statutory measure shall come into operation on 15 November 2018 and will lapse four years later.

ECONOMIC DEVELOPMENT DEPARTMENT**NOTICE 630 OF 2018****COMPETITION TRIBUNAL****NOTIFICATION OF COMPLAINT REFERRAL**

The Competition Tribunal gives notice in terms of Section 51(3) & (4) of the Competition Act 89 of 1998 as amended, that it received the complaint referrals listed below. The complaint(s) alleges that the respondent(s) engaged in a prohibited practice in contravention of the Competition Act 89 of 1998.

Case No.	Complainant	Respondent	Date received	Sections of the Act
CR178Sep18	Competition Commission	Beefcor (Pty) Ltd; Cape Fruit Processors (Pty) Ltd	23/09/2018	4(1)(b)(ii)

The Chairperson
Competition Tribunal

ECONOMIC DEVELOPMENT DEPARTMENT**NOTICE 631 OF 2018****COMPETITION TRIBUNAL****NOTIFICATION OF DECISION TO APPROVE MERGER**

The Competition Tribunal gives notice in terms of rules 34(b)(ii) and 35(5)(b)(ii) of the "Rules for the conduct of proceedings in the Competition Tribunal" as published in Government Gazette No. 22025 of 01 February 2001 that it approved the following mergers:

Case No.	Acquiring Firm	Target Firm	Date of Order	Decision
LM151Aug18	27Four Holdings (Pty) Ltd	Prescient Life Ltd	12/09/2018	Approved
LM065May18	Gropcapital Holdings (Pty) Ltd	South African Bank of Athens Ltd	12/09/2018	Approved Subject to Conditions
LM232Nov17	Off The Shelf Investments 56 (RF) (Pty) Ltd ("OTS")	Chevron South Africa (Pty) Ltd	13/09/2018	Approved Subject to Conditions
LM108Jul18	Fairfax Africa Holdings	Consolidated Infrastructure Group Ltd	26/09/2018	Approved
LM100Jun18	Sturrock Grindrod Maritime (Pty) Ltd	Novagroup (Pty) Ltd	26/09/2018	Approved

The Chairperson
Competition Tribunal

DEPARTMENT OF EDUCATION**NOTICE 632 OF 2018****Correction Notice**

This serves as a **Correction Notice** in the government gazette **Vol. 639 No. 41887** published on Friday, 7 September 2018. The notice no: **NO. 926** has been erroneously published under the Department of Basic Education instead of the Department of Higher Education and Training.

POLICY FOR THE QUALITY ASSURANCE OF PRIVATE COLLEGES FOR CONTINUING EDUCATION AND TRAINING, OFFERING QUALIFICATIONS REGISTERED ON THE GENERAL AND FURTHER EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK, AND THE ACCREDITATION OF PRIVATE ASSESSMENT BODIES

For a full view of the notice visit the Umalusi website on www.umalusi.org.za

DEPARTMENT OF EDUCATION

NOTICE 633 OF 2018

SCHEDULE

**REGULATIONS FOR THE QUALITY ASSURANCE OF PRIVATE
COLLEGES FOR CONTINUING EDUCATION AND TRAINING, OFFERING
QUALIFICATIONS REGISTERED ON THE GENERAL AND FURTHER
EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK, AND
THE ACCREDITATION OF PRIVATE ASSESSMENT BODIES**

ISBN:

UMALUSI

37 General van Ryneveld Street

Persequor Technopark

PRETORIA

PO Box 151

Persequor Technopark

Pretoria

South Africa

Tel: +27 12 349 1510

Fax: +27 12 349 1511

<http://www.umalusi.org.za>

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TABLE OF CONTENTS

Abbreviations and Acronyms	7
 Chapter 1	
 Definitions, Purpose and Application	 8
1. Definitions	8
2. Purpose	14
3. Application	15
 Chapter 2	
 Legislative Context	 17
4. Underpinning legislation	17
5. Development of the Regulations	20
6. Supplementary documents	21
 Chapter 3	
 Qualifications on the General and Further Education and Training Qualifications Sub-framework	 22
7. Qualifications on the General and Further Education and Training Qualifications Sub-framework (GFETQSF)	22
 Chapter 4	
 Quality Assurance of Private Colleges	 23
8. Quality Assurance process	23
9. Quality Assurance of Private Colleges	24

Chapter 5**The Registration and Accreditation of Private Colleges 26**

- | | | |
|-----|--------------------------------|----|
| 10. | Registration process | 26 |
| 11. | Accreditation process | 27 |
| 12. | Accreditation process criteria | 28 |

Chapter 6**Minimum Compliance Standard for the Accreditation of Private Colleges 30**

- | | | |
|-----|--|----|
| 13. | Minimum standard of compliance for accreditation by Private Colleges | 30 |
| 14. | Criteria for Quality Assurance, Accreditation and Monitoring of Private Colleges | 31 |

Chapter 7**Quality Assurance of Private Assessment Bodies 34**

- | | | |
|-----|---|----|
| 15. | Accreditation requirement | 34 |
| 16. | Accreditation status | 34 |
| 17. | Accreditation process to be followed by the applicant | 36 |
| 18. | Umalusi's role in the accreditation process | 38 |
| 19. | Provisional accreditation | 39 |
| 20. | Accreditation of Private Assessment Bodies | 39 |
| 21. | Functions of Private Assessment Bodies | 40 |
| 22. | Registration of examination centres | 40 |

Chapter 8**Criteria for the accreditation and Monitoring of Private Assessment Bodies 42**

23. Standard of compliance 42
24. Criteria for the Accreditation and Monitoring of Private Assessment Bodies to assess a qualification on the GFETQSF 42

Chapter 9**Withdrawal of Accreditation 47**

25. Rationale 47
26. Procedures to be followed in the event of non-compliance by Private Assessment Bodies 47
27. Procedures to be followed in the event of non-compliance by Private Colleges 48
28. Appeals procedure 49

Chapter 10**Funding 50**

29. Provision for funding by the Council 50

Chapter 11**Transitional Arrangements and Commencement of Regulations 51**

- | | | |
|-----|---------------------------|----|
| 30. | Transitional arrangements | 51 |
| 31. | Short Title | 51 |

ABBREVIATIONS AND ACRONYMS

ABET	Adult Basic Education and Training
AET	Adult Education and Training
CET	Continuing Education and Training
DG	Director General of the Department of Higher Education and Training
DHET	Department of Higher Education and Training
GENFET	General and Further Education and Training
GFETQSF	General and Further Education and Training Qualifications Sub-Framework
NQF	National Qualifications Framework
QC	Quality Council
SAQA	South African Qualifications Authority
TVET	Technical Vocational Education and Training

CHAPTER 1

DEFINITIONS, PURPOSE AND APPLICATION

1. Definitions

The purpose of these definitions is to define the terminology used in developing these Regulations.

In these Regulations-

- (a) any word or expression to which meaning has been assigned in the *National Qualifications Framework Act, 2008 (Act No. 67 of 2008)* and the *General and Further Education and Training Quality Assurance Act 2001, (Act No. 58 of 2001)*, shall have the meaning so assigned to it, unless the context otherwise indicates-
- (b) the singular shall include the plural and *vice versa*-

“acknowledgement of receipt of application for accreditation” – means Umalusi has received a completed self-evaluation report from a private college;

“accreditation” – means the outcome of a quality assurance process of evaluating-

- (a) a private assessment body to determine whether its capacity, systems, processes and products are of the appropriate quality to deliver valid, reliable, fair and credible assessments and
- (b) a private college to determine whether it has, in accordance with the criteria for quality assurance as set out in these Regulations, the capacity to offer a qualification or part-qualifications or programmes leading to a qualification on the General and Further Education and Training Qualifications Sub-framework;

“assessment” - means the process of identifying, gathering and interpreting information about a learner’s achievement in order to-

- (a) assist the learner's development and improve the process of learning and teaching; and
- (b) evaluate and certify competence in order to ensure qualification credibility. Assessment includes national examinations and site-based assessment;

“assessment body” - means a juristic body accredited by Umalusi Council to quality assure internal assessment and conduct external examinations, or a department of education;

“assessed curriculum” – means the part of the intended curriculum which features in assessment or examinations;

“certification” - means the formal recognition by Umalusi Council of a qualification or part qualification awarded to a successful learner;

“college” – means

- (a) a public college that is established or declared in terms of the *CET Act* as-
 - (i) a technical and vocational education and training college; or
 - (ii) community education and training college; or
- (b) a private college offering Adult Education and Training and/or Further Education and Training programmes leading towards the achievement of a qualification or part-qualification on the General and Further Education and Training Qualifications Sub-Framework;

“continuing education and training” – means all post-school learning and training programmes leading to qualifications or part-qualifications on the General and Further Education and Training Qualifications Sub-Framework;

“Council” – refers to Umalusi, the Quality Council for General and Further Education and Training; as contemplated in the *National Qualifications Framework Act, 2008 (Act No. 67 of 2008)*, and the *General and Further Education and Training Quality Assurance Act 2001, (Act No. 58 of 2001)*;

“curriculum” - means a statement which encompasses three components: intended curriculum, enacted curriculum and assessed curriculum; curriculum framework, and means the same as programme;

“Department of Education” – means the Department of Higher Education;

“Director-General” – means the Director-General of the Department;

“education institution” – means an education institution which has been established, declared or registered under the-

- (a) *South African Schools Act, 1996 (Act No. 84 of 1996)*; and
- (b) *Continuing Education and Training Act, 2006 (Act No. 16 of 2006)*;

“examination centre” – means a private college registered and managed by a private accredited or public assessment body as a venue for their candidates;

“exit point” - means a point in General and Further Education and Training at which a learner is required to demonstrate competence with a view to obtaining a documentary proof of **proficiency**;

“external assessment” - means assessment conducted by a public or **accredited** private assessment body, the outcomes of which count towards the achievement of a qualification or part-qualification, and means the same as external examination;

“external moderation” – means the authentication of internal and external assessment conducted by Umalusi;

“Further Education and Training” - means all learning and training programmes leading to qualifications or part-qualification, and means the same as external examination on Levels 2, 3 and 4 of the National Qualifications Framework (NQF);

“General and Further Education and Training Qualifications Sub-framework” - means the Sub-framework of the NQF for General and Further Education and Training that is developed and managed by Umalusi;

“General Education and Training” – means all learning and training programmes leading to a qualification or part-qualification on level 1 of the National Qualifications Framework;

“Internal assessment” – means any assessment, conducted by an education institution, the outcomes of which count towards the achievement of a qualification or part-qualification;

“learner” - means any person receiving or obliged to receive education at any education institution within the general and further education and training sectors;

“learning programme” – means a structured and purposeful set of learning experiences that leads to a qualification or part-qualification;

“Letter of intent” – means the private college or private assessment body’s indication of its intent to apply for accreditation;

“Minister” - means the Minister of Higher Education and Training;

“moderation” – means a process which ensures that assessment of the outcomes described in the National Qualifications Framework standards or qualifications is fair, valid and reliable;

“part-qualification” – means an assessed unit of learning with a clearly defined purpose that is, or will be, registered as part of a qualification on the National Qualifications Framework (NQF);

“National Qualifications Framework” (NQF) means the national qualifications framework contemplated in the *National Qualifications Framework Act, 2008*;

“private college” – means any college that provides continuing education and training on a full-time, part-time or distance basis and which is registered or provisionally registered as a private college in terms of *Chapter 6 of the Continuing Education and Training Act, 2006*;

“private education institution” as contemplated in the *General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001)*;

“programme” – means the same as curriculum in the Act and in these Regulations;

“provisional accreditation” - means the granting of accreditation for a limited time to a private college or private assessment body that has applied for accreditation to enable such private college or private assessment body to comply with the requirements to offer or assess respectively, a qualification or part-qualification or programmes leading to a qualification or part-qualification on the General and Further Education and Training Qualifications Sub-framework;

“public college” – means any college that provides continuing education and training on a full-time, part-time or distance basis which is-

- (a) established or regarded as being established as a public college under section 3 of the *Continuing Education and Training Act, 2006*; or
- (b) declared as a public college under section 4 of the *Continuing Education and Training Act, 2006*;

“qualification” – as contemplated in the *National Qualifications Act, 2008 (Act No.67 of 2008)*;

“quality” – means meeting the set criteria, standards and requirements;

“quality assurance” - means the process of measuring, evaluating and reporting on quality against standards, and monitoring for ongoing improvement in the qualification or part-qualification, the curriculum, the assessment, the implementation and delivery of the curriculum and the capacity of the institution or assessment body to offer and/or assess the qualification or part-qualification;

“Quality Council (QC)” - as contemplated in the *National Qualifications Framework Act, 2008 (Act No.67 of 2008)*;

“registered qualification” – means a qualification registered on the *National Qualifications Framework* in terms of *section 13(1)(h)* of the *National Qualifications Framework Act, 2008 (Act No. 67 of 2008)*;

“Registrar” – means the Director-General of the Department of Higher Education and Training;

“requirements” - means requirements as established by these Regulations as determined by Council in respect of the quality assurance

of private, colleges for continuing education and training, and accreditation of an assessment body;

“**Umalusi**” – means, the Quality Council for General and Further Education and Training established by the *General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001)*. In terms of the *National Qualifications Framework Act, 2008 (Act No. 67 of 2008)*, it is tasked to support the achievement of the objectives of the NQF and to develop and manage the General and Further Education and Training Qualifications Sub-Framework.

2. Purpose

- (1) The *General and Further Education and Training Quality Assurance Act, 2001 (Act No. No. 58 of 2001)* (hereafter referred to as the *GENFETQA Act*), enables Umalusi to-
 - (a) develop in accordance with *section 17A(2)(a)* policy and criteria for the quality assurance, accreditation and monitoring of private education institutions; including private colleges as contemplated in the *Continuing Education and Training Act, 2006 (Act No. 16 of 2006)*, hereafter referred to as the *CET Act*;
 - (b) translate in accordance with *section 17A(2)(b)*, the policy, contemplated in *sub-regulation 1(a)* into regulations;
 - (c) regulate in accordance with *section 17A(2)(c)* the process for accreditation of a private assessment body seeking to offer a qualification registered on the General and Further Education and Training Qualifications Sub-framework through a quality assurance process that may lead to accreditation;
 - (d) monitor private assessment bodies in accordance with a set of regulated accreditation criteria.

- (e) accredit assessment bodies, subject to the outcome of the accreditation process as contemplated in *sub-regulation (c)* above; and
 - (f) affirm or withdraw the accreditation status of the private college concerned.
- (2) The *National Qualifications Framework Act, 2008 (Act No. 67 of 2008)* (hereafter referred to as the *NQF Act*) provides for the establishment of Umalusi as a Quality Council that is responsible for the development and management of a Sub-framework of qualifications at Levels 1-4 of the National Qualifications Framework and the related quality assurance processes.

3. Application

- (1) These Regulations apply to-
 - (a) private colleges registered in terms of the *Continuing Education and Training Act, 2006 (Act No. 16 of 2006)*, (hereafter referred to as the *CET Act*) as amended by the *Further Education and Training Colleges Amendment Act, 2013 (Act No. 1 of 2013)*, and offering qualifications or part-qualification which are registered on the GFETQSF;
 - (b) private assessment bodies that quality assure formal internal assessment and conduct external assessment in accordance with the regulatory framework outlined in the national policies that govern the qualifications or part-qualifications they assess.
- (2) In the event of a conflict between the *NQF Act*, the *Higher Education Act, 1997 (Act No 101 of 1997)*, the *Continuing Education and Training Act, 2006 (Act No. 16 of 2006)* as amended by the *Further Education and Training Colleges Amendment Act, 2013 (Act No. 1 of 2013)*, the *Skills Development*

Act, 1998 (Act No 97 of 1998) and the GENFETQA Act, the NQF Act, must be given preference.

CHAPTER 2

LEGISLATIVE CONTEXT

4. Underpinning legislation

- (1) These Regulations are premised on the following acts-
 - (a) The *Constitution of the Republic of South Africa, 1996 (Act No. 108 of 1996)*;
 - (b) *NQF Act, 2008*;
 - (c) *GENFETQA Act, 2001*; and
 - (d) *CET Act, 2006*.
- (2) Section 4 of the *Constitution of the Republic of South Africa, 1996* stipulates that everyone has the right to establish and maintain, at their own expense, independent educational institutions that-
 - (a) do not discriminate on the basis of race;
 - (b) are registered with the state; and
 - (c) maintain standards that are not inferior to standards at comparable public educational institutions.
- (3) The *NQF Act* provides for the establishment of Umalusi as a Quality Council that is responsible for the development and management of a Sub-framework of qualifications at Levels 1-4 of the National Qualifications Framework and the related quality assurance processes.
 - (a) The said Act determines that the Quality Council must, in respect of quality assurance within its Sub-framework-
 - (i) develop and implement policy for quality assurance, which in accordance with *section 17A(2)(b)*, must be translated into regulations;
 - (ii) ensure the integrity and credibility of quality assurance; and

- (iii) ensure that quality assurance as is necessary for the Sub-framework is undertaken.
- (b) In order to determine and maintain the standard of qualifications or part-qualifications registered on the GFETQSF, Umalusi as Quality Council must ensure-
 - (i) that qualifications or part-qualifications are registered on the GFETQSF, in terms of both the *NQF Act* and the *GENFETQA Act*;
 - (ii) that private colleges that offer provision towards the achievement of such qualifications are quality assured and accredited to offer the curriculum that supports such qualifications or part-qualifications;
 - (iii) that assessment bodies and systems that externally examine such qualifications or part-qualifications are accredited to do so and monitored; and
 - (iv) the conduct of national external examinations for qualifications or part-qualifications on the GFETQSF is monitored and moderated.
- (4) The *GENFETQA Act* stipulates that the Council must in terms of sections 17A(2), 23(1) and 24 respectively, develop the underpinning policy and criteria for these Regulations-
 - (a) the accreditation of assessment bodies other than **departments of education**; and
 - (b) the quality assurance of private colleges offering qualifications or part qualifications on the GFETQSF.

- (5) The *CET Act* which commenced on 11 December 2006, repealed the *Further Education and Training Act, 1998 (Act No. 98 of 1998)* and the *Adult Education and Training Act, 2000 (Act No. 52 of 2000)* to determine the following-
- (a) Institutions offering qualifications or part-qualifications on the GFETQSF-
- (i) Technical Vocational Education and Training Colleges;
 - (ii) Community Education and Training Colleges;
 - (iii) Public and Private Community Learning Centres; and
 - (iv) Private Colleges as defined in terms of these Regulations.
- (b) In terms of the *NQF Act*, Umalusi is responsible for the following qualifications listed on the GFETQSF-
- (i) National Certificate (Vocational) NC(V), *Government Gazette, No. 28677 of 29 March 2006*;
 - (ii) Reports 190/191 PART 1: Engineering Studies (N1-3) programmes, *Report 191 Government Gazette, No. 38029 of 29 September 2014, Part 1: N1-N3*, Department of Education, (2001/08);
 - (iii) National Senior Certificate for Adults (NASCA), *Government Gazette, No. 33805 of 26 November 2010*;
 - (iv) General Education and Training Certificate, ABET Level 4;
 - (v) General Education and Training Certificate for Adults (GETCA), *Government Gazette, No. 39218 of 18 September 2015.*; and

- (vi) future qualifications or part-qualifications registered on the GFETQSF to be offered at private colleges.

5. Development of the Regulations

- (1) Although not specifically required, regulations for the quality assurance, accreditation and monitoring of private colleges have been developed in accordance with *section 27* of the *GENFETQA Act*, which enable the Minister to make regulations regarding any matter which it is necessary or expedient to prescribe in order to achieve the objectives of the *GENFETQA Act*. The regulations for the quality assurance, accreditation and monitoring of private colleges are stipulated in Chapters 4-6.
- (2) In pursuance of the legal requirement to develop policy for the quality assurance and accreditation of private colleges and private assessment bodies, as contemplated in *Regulation 4(4)*, *Umalusi's Policy for Quality Assurance of Private Learning Centres, Private Further Education and Training Colleges and the Accreditation of Private Assessment Bodies* was developed. The policy was promulgated as Government Notice No 528, published in *Government Gazette No 33237* of 28 May 2010.
- (3) In compliance with *sections 17A(2)(b) and 17A(2)(c)* of the *GENFETQA Act*, regulations pertaining to the quality assurance, accreditation and monitoring of private assessment bodies have been developed as contemplated in Chapters 7-9.

6. Supplementary documents

These Regulations must be read in conjunction with the following policy documents-

- (1) General and Further Education and Training Qualifications Sub-framework, promulgated in *Government Gazette No. 36006* of 14 December 2012, as amended in *Government Gazette No. 36803* of 30 August 2013, and published on 8 September 2014;
- (2) Standard Setting and Quality Assurance of the General and Further Education and Training Qualifications Sub-framework, Umalusi, 2014;
- (3) A Policy for the Management of Qualifications on the General and Further Education and Training Qualifications Framework, a Sub-framework of the National Qualifications Framework;
- (4) *National Policy on the Conduct, Administration and Management of the Assessment of the National Certificate (Vocational)*, *Government Gazette No. 30287* of 12 September 2007;
- (5) *Internal Continuous Assessment (ICASS) Guidelines for Report 191 Programmes in TVET Colleges implementation January 2017*;
- (6) *Internal Continuous Assessment (ICASS) Guidelines for the NC(V) Qualifications in TVET Colleges implementation January 2017*; and
- (7) National Policy on the Examination of Formal Technical College Instructional Programmes.

CHAPTER 3

QUALIFICATIONS ON THE GENERAL AND FURTHER EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK

7. Qualifications on the General and Further Education and Training Qualifications Sub-framework (GFETQSF)

- (1) In terms of *section 3* of the *NQF Act*, every qualification or part-qualification, offered in the Republic by education institutions, must be registered on the NQF in accordance with the said Act.
- (2) In accordance with the aim of the *NQF Act* Umalusi's mandate is limited to qualifications and part qualifications which are registered on the GFETQSF at Levels 1-4 of the NQF.
- (3) The qualifications and part-qualifications are used as benchmarks of quality in the education and training system. Standards are embedded in qualifications or part-qualifications, their related curricula/programme and assessment requirements, and in the type and extent of knowledge, skills and competence that the learner is expected to acquire as expressed in these documents.

CHAPTER 4

QUALITY ASSURANCE OF PRIVATE COLLEGES

8. Quality Assurance process

- (1) Umalusi Council is required to quality assure private colleges which means that such private colleges are required to participate in a process that measures against standards, the college's capacity to deliver a qualification or part-qualification and its supporting curriculum/programme, and the quality of the implementation of such, at the required standard.
- (2) If the private college meets the standards as contemplated in *sub-regulation (1)*, the private college is accredited for a period of 7 (seven) years to offer the specific qualification or part qualification registered on the General and Further Education and Training Qualifications Sub-framework (GFETQSF).
- (3) Private colleges that are granted provisional accreditation are required to address areas of partial compliance within a period not exceeding two years.
- (4) However, should the private college fail to comply with the standards as contemplated in *sub-regulation (1)*, it will not be accredited.
- (5) Accredited private colleges are monitored to ensure continued meeting of the standards, as contemplated in *sub-regulation (1)*, is monitored for ongoing improvement.

- (6) Quality assurance of private colleges, as contemplated in *sub-regulation (1)*, is carried out through processes that include-
 - (a) application for accreditation to offer a qualification or part-qualification on the GFETQSF;
 - (b) self-evaluation by the private college to enhance an internal culture of quality management and ongoing improvement;
 - (c) a desktop evaluation of the self-evaluation report;
 - (d) external validation to ensure that the private college meets the regulated criteria, national policy and regulations and to ensure a benchmarked standard of provision and college improvement.
 - (e) granting of accreditation or provisional accreditation or no accreditation by Umalusi; and
 - (f) periodic monitoring to ensure maintenance of standards and continued improvement.

9. Quality Assurance of Private Colleges

- (1) Any institution that is required to register as a private college must in terms of *section 23* of the *GENFETQA Act*, comply with the criteria for quality assurance developed by Umalusi.
- (2) In terms of *section 3* of the *NQF Act*, every qualification or part-qualification, offered in South Africa by education institutions, must be registered on the NQF in accordance with the said *Act*.
- (3) In accordance with the aim of the *NQF Act* Umalusi's mandate is limited to qualifications and part qualifications which are registered on the GFETQSF at Levels 1-4 of the NQF.

- (4) Quality assurance of private colleges must in terms of *section 43(2)* of the *CET Act* be conducted by Umalusi in terms of the *GENFETQA Act*.
- (5) The criteria for the accreditation of private colleges, as contemplated in Chapter 6 of these Regulations, are intended to assess, *inter alia* the effectiveness of the implementation of the curriculum/programme of a qualification or part-qualification on the GFETQSF and includes its internal assessment.
- (6) Based on the outcome of the quality assurance process as contemplated in *Regulation 2(1)(a)*, and subject to the compliance with the criteria for accreditation contemplated in *Chapter 6* of these Regulations, accreditation for a period of 7 (seven) years to offer a registered qualification or part-qualification on the GFETQSF and the related curriculum/programme may be granted to a private college by Umalusi.
- (7) Private colleges that are granted provisional accreditation are required to address areas of partial compliance within a period not exceeding two years.

CHAPTER 5

THE REGISTRATION AND ACCREDITATION OF PRIVATE COLLEGES

10. Registration process

- (1) Private colleges are only able to operate legally in South Africa subject to registration by the Department of Higher Education and Training.
- (2) Private colleges obtain registration in terms of the conditions as determined by the Department of Higher Education and Training, before applying for accreditation with Umalusi.
- (3) The criteria for the registration of private colleges are stipulated in *sections 28 and 29 of the CET Act*-
No person other than a public college or any organ of the state may provide continuing education and training unless that person is-
 - (a) incorporated or recognised as a company in terms of the *Companies Act, 2008 (Act No. 71 of 2008)*; and
 - (b) registered or provisionally registered as a private college in terms of the CET Act.
- (4) An application for registration as a private college must be made to the registrar, which is the Director-General for Higher Education and Training, in a manner determined by the registrar.
- (5) The registrar must register an applicant as a private college if the registrar has reason to believe that the applicant-
 - (a) is financially capable of satisfying its obligations to prospective learners; and
 - (b) with regard to all its continuing education and training qualifications or part-qualifications-

- (i) will maintain acceptable standards that are not inferior to standards at comparable public colleges;
 - (ii) will comply with the requirements of Umalusi; and
 - (iii) complies with any other reasonable requirement prescribed by the Minister of Higher Education and Training.
- (6) In terms of the *Further Education and Training Colleges Amendment Act, 2013 (Act No. 1 of 2013)*, any college that is in existence immediately before the commencement of the *CET Act* continues to exist as a vocational and continuing education and training college and is deemed to have been established as a technical and vocational education and training college in terms of *section 3(1)(a)* of the Principal Act as amended by the *CET Act*.
- (7) A private AET Centre registered in terms of *sections 26 and 27* of the *AET Act*, which registration is still valid immediately before the commencement of the *CET Act*, is deemed to be provisionally registered in terms of the principal Act as amended by the *CET Act* for the duration of the registration period set in terms of the *AET Act*.
- (8) Notwithstanding the afore-mentioned *sub-regulation (7)*, a private adult education and training centre referred to above, must within 12 months from the date of commencement of the *CET Act* or such extended period as the Minister may determine by notice in the *Government Gazette*, and apply to be registered in terms of the principal Act as amended by the *CET Act*.

11. Accreditation process

- (1) Private colleges offering a qualification or part-qualification on the GFETQSF that received registration, as contemplated in *regulation 10*, must apply to Umalusi for accreditation within **one year** after registration, subject to certain requirements to be met

within a specified period, has been granted by the Department of Higher Education and Training.

- (2) Accreditation is considered within a period of **one year** after the date of receipt of the application for accreditation.
- (3) Umalusi will advise the Registrar on the outcome of the application of the private college for accreditation.
- (4) In order for a private college to conduct external assessments for a qualification or part-qualification on the GFETQSF, such a private college must be-
 - (a) registered by the Department of Higher Education and Training as a private college;
 - (b) accredited to offer a registered qualification or part-qualification; and
 - (c) registered as an examination centre with a public or an accredited private assessment body.

12. Accreditation process criteria

- (1) The quality assurance of private colleges has as its key focus the enactment of curriculum through-
 - (a) mission directed leadership and management that enables curriculum implementation;
 - (b) teaching proficiency, including appropriate pedagogy and methodology;
 - (c) quality internal assessment;
 - (d) learner learning and support; and
 - (e) quality assurance measures in support of the continuous improvement of results.

- (2) The quality assurance of a private college entails the recognition of the private college to offer the specific qualification or part-qualification on the GFETQSF. A private college must have-
- (a) a mission in line with national goals and appropriate to the sector;
 - (b) sufficient resources, programmes, and services to accomplish and sustain the mission;
 - (c) clearly specified educational objectives consistent with the mission;
 - (d) quality assurance practices that will ensure continuous improvement in terms of the enactment of the curriculum through teaching, learning and assessment;
 - (e) the capacity to use assessment results (internal and external) to diagnose and, if required, remedy teaching, learning and assessment; and
 - (f) the ability to take responsibility for the conduct and standard of internal continuous assessment, as well as undertake external assessment, as per the directives, policies and regulations of the QC and the relevant qualification or part-qualification.
- (3) If the private college meets the standards as contemplated in the afore-mentioned *sub-regulation (2)*, the private college is accredited to offer the specific qualification or part-qualification registered on the GFETQSF. However, should the private college fail to comply with the standards as contemplated in *sub-regulation (2)*, the institution will not be accredited.

CHAPTER 6**MINIMUM COMPLIANCE STANDARD FOR THE ACCREDITATION OF PRIVATE COLLEGES****13. Minimum standard for compliance for accreditation by private colleges**

The set of criteria for the accreditation of private colleges constitutes the minimum standard that private colleges are expected to comply with. The standard is evaluated in three inter-related areas, namely-

- (1) Input criteria that focus on the standard of input factors which include management and leadership, resources and all other enablers of a conducive environment for effective teaching and learning.
- (2) Process criteria which are used to assess the effectiveness of internal quality management and standards of curriculum implementation and assessment as well as any other processes that are intended to lead to the achievement of the private college's stated goals.
- (3) Output criteria that focus on the quality of assessment outcomes or results as well as other indicators of success.

14. Criteria for Quality Assurance, Accreditation and Monitoring of Private Colleges

- (1) A private college is accredited to offer specific qualifications or part-qualifications and their associated curricula registered on the GFETQSF.
- (2) The criteria for the accreditation of a private college to offer a qualification or part-qualification on the GFETQSF are-

(a) Criterion 1: Mission Directed Leadership and Management

- (i) Mission directed leadership and management which are concerned with-
 - (aa) the attainment of the vision and mission as informed by-
 - (aaa) its legal framework and context;
 - (bbb) national priorities;
 - (ccc) strategic leadership and effective governance structures and strategies; and
 - (ddd) the effectiveness with which the qualification or part-qualification mix and provision is selected, planned, managed, quality assured and improved;
- (bb) the appropriate allocation of resources to ensure that the institution is viable and sustainable;
- (cc) a reflection of the institutional commitment to monitor and evaluate in order to improve quality; and

- (dd) the establishment of the required infrastructure and processes to ensure quality provision.

(b) Criterion 2: Teaching, Learning and Training

- (i) The private college is professionally staffed to support the qualifications or part-qualifications it offers.
- (ii) Learning and assessment are at the core of the enactment of the curriculum.
- (iii) The private college implements the curriculum and assessment requirements at the required standard and in accordance with the directive, policy and regulation requirements of the qualifications or part-qualifications registered on the GFETQSF.
- (iv) The curriculum is enacted to reflect appropriate instructional approaches that support learning in respect of qualifications or part-qualifications the institution is accredited to offer.
- (v) Suitable learning programmes and materials in support of the qualifications or part-qualifications offered are developed.
- (vi) Teaching proficiency is increased through the development of appropriate pedagogy and methodology by means of staff development.

(c) Criterion 3: Assessment and Results

- (i) The private college manages and conducts internal continuous assessment of an acceptable standard and in line with directives policies and regulations of the qualification and provides developmental feedback to learners.

- (ii) The private college is registered as an examination centre that undertakes external assessment in compliance with the directives, policies and regulations of Umalusi and the relevant qualification.
- (iii) Quantitative and qualitative data are used to track learner achievement and improve learner success.

(d) Criterion 4: Learner Support

Learner support is evident through-

- (i) academic guidance and support; and
- (ii) career guidance and support.

CHAPTER 7

QUALITY ASSURANCE OF PRIVATE ASSESSMENT BODIES

15. Accreditation requirement

The Minister must in terms of *section 17A(2)(b)* make regulations in which the policy for accreditation is set out and in accordance with these Regulations the Council must accredit a private assessment body.

16. Accreditation status

- (1) The accreditation of an assessment body entails the recognition of the private assessment body to assess the qualification or part-qualification on the GFETQSF.
- (2) Considering the afore-mentioned *sub-regulation (1)*, private assessment bodies are required to obtain accreditation with Umalusi to assess a qualification or part-qualification on the GFETQSF.
- (3) An assessment body must have-
 - (a) clearly defined goals that are in line with national policies and that relate to the assessment of national qualifications or part-qualifications;
 - (b) sufficient resources to realise their goals;
 - (c) demonstrated evidence of achieving their goals; and
 - (d) demonstrated capacity to fulfil their functions; and
 - (e) provide sufficient reason for the QC to believe that they can continue to achieve its goals.

- (4) Accreditation is granted to a private assessment body if such assessment body-
 - (a) has the capacity to manage or coordinate national examinations and assessment of learner achievement in respect of qualifications or part-qualifications it offers.
 - (b) demonstrates the capacity to conduct, administer and manage national examinations and assessments of learner achievement in respect of qualifications or part-qualifications they offer as stipulated in the Directives of Umalusi; and
 - (c) assesses a qualification or part-qualification on the GFETQSF which includes all the processes involved in the setting and administration of external examinations and internal assessment for the full period of the qualification or part-qualification as required by the policies and regulations that govern such a qualification or part-qualification.
- (5) An accredited private assessment body must perform the functions with regard to external assessment as set out in *section 18* of the *GENFETQA Act*.
- (6) Private assessment bodies will be monitored and reported on annually to ensure ongoing compliance with policies and regulations, improvement and maintenance of standards.
- (7) A private assessment body which fails to comply with the accreditation requirements set out in the afore-mentioned *sub-regulation (3)* will be regarded as not accredited and may therefore not operate as an assessment body.

17. Accreditation process to be followed by the applicant

- (1) The accreditation of private assessment bodies is a process of evaluating a private assessment body to determine whether its capacity, systems, processes and products are of the appropriate quality to deliver valid, reliable, fair and credible assessments and examinations.
- (2) The assessment system is a key driver of quality in the education and training system and sets the standards for general and further education and training. As such, assessment bodies must meet the requirements of these Regulations through-
 - (a) quality assuring internal assessment and designing, conducting and managing external assessments as prescribed in a particular curriculum;
 - (b) undertaking internal moderation of assessment instruments;
 - (c) ensuring external moderation of assessment instruments;
 - (d) supplying the QC with marks and/or other records of assessment conducted, as specified by the QC;
 - (e) taking adequate measures to ensure the security and integrity of the assessment process, including combatting irregularities;
 - (f) publishing assessment results on approval by the QC;
 - (g) developing a cadre of competent assessment personnel, including but not limited to examiners, moderators, markers and invigilators;
 - (h) undertaking development and research that will enhance the achievement of educational outcomes; and
 - (i) fulfilling any other functions as stipulated in the *GENFETQA Act* and any relevant policies and directives issued by Umalusi.

- (3) The accreditation process comprises the following procedures to be followed by private assessment bodies-
- (a) submitting an application for accreditation to assess a qualification or part-qualification listed on the GFETQSF which will only be processed if the applicant-
- (i) complies with the following-
- (aa) is a juristic person independent of any provision of education and training and is registered as a company in terms of the *Companies Act 2008 (Act No 71 of 2008)*;
- (bb) is able to provide proof that its income is sufficient to sustain its assessment regime as based on criteria determined by Umalusi;
- (cc) has a stable financial position that will enable it to maintain operational continuity;
- (dd) can provide proof that it has established financial surety or guarantee to ensure that it is able to meet its obligations to the learners registered for its examinations and assessment services; and
- (ee) has sufficient professional expertise in education and assessment in order to provide assessment services for the qualification or part-qualification it is seeking to offer; and
- (ii) adheres to the following requirements-
- (aa) lodges an expression of intent to seek accreditation to assess a qualification or part-qualification registered on the GFETQSF at least 18 months before the pilot examination is envisaged;

- (bb) establishes the need for an assessment body to assess such qualification or part-qualification and motivating the need through a feasibility study;
- (b) submitting a self-evaluation report and supporting evidence to Umalusi;
- (c) undertaking a site verification conducted by Umalusi;
- (d) conducting an exit examination pilot study;
- (e) receiving provisional or no accreditation;
- (f) applying for accreditation;
- (g) conducting a full exit examination; and
- (h) receiving accreditation or no accreditation.

18. Umalusi's role in the accreditation process

- (1) Umalusi must evaluate the applicant's capacity to conduct, administer and manage examinations. This will include a policy framework, assessment systems and standards, through a desktop evaluation of the self-evaluation report, state of readiness evaluation and verification of site visits.
- (2) Umalusi must determine the competence of the applicant in the development of assessment products and administration of an examination at the required standard, demonstrated through a pilot study.
- (3) Based on the outcome of Umalusi's evaluation as contemplated in *Sub-regulations (1) and (2)*, Umalusi may award either provisional accreditation or no accreditation.
- (4) After provisional accreditation has been granted by Umalusi, the applicant must commence with immediate planning for a

lead time of 12 months before the first formal examination is conducted.

- (5) Umalusi must conduct monitoring to ensure credible, fair and valid internal and external assessment of learner achievement at exit points.

19. Provisional accreditation

- (1) Private assessment bodies that have successfully completed their pilot may be granted provisional accreditation for a period of three years during which time the assessment body must meet all the requirements of accreditation.
- (2) Provisional accreditation of an assessment body may be extended by Umalusi Council on reasonable grounds.
- (3) If the assessment body fails to meet all the requirements of accreditation as contemplated in the afore-mentioned *sub-regulation (1)*, it will be awarded a status of “no accreditation” and it may not continue to offer national examinations for qualifications or part-qualifications registered on the GFETQSF.

20. Accreditation of private assessment bodies

- (1) Accreditation is granted to a private assessment body to assess a qualification or part-qualification on the GFETQSF which includes all the processes involved in the setting and administration of external examinations and quality assuring internal assessment for the full period of the qualification part-qualification as required by the policies that govern the qualification or part-qualification.

- (2) Private assessment bodies will be monitored and reported on annually to ensure ongoing compliance with policies and regulations, improvement and maintenance of standards.
- (3) To ensure consistency in the national assessment system, Umalusi sets common criteria for the state and private assessment bodies.
- (4) An accredited private assessment body must perform the functions with regard to external assessment as set out in *section 18* of the *GENFETQA Act*.

21. Functions of Private Assessment Bodies

- (1) An assessment body conducts formal, externally quality assured assessment for qualifications or part-qualifications on the GFETQSF and quality assures any internal continuous assessment relevant to the qualification or part-qualification.
- (2) The assessment system may have different forms of delivery and conception in respect of the development of assessment instruments and assessment items, quality assurance measures and approaches.

22. Registration of examination centres

Public or accredited private assessment bodies may register examination centres on condition that they-

- (1) comply with the registration requirements as determined by the relevant education department and accreditation by Umalusi;

- (2) assess a qualification or part-qualification on the General and Further Education and Training sub-framework of qualifications;
- (3) have met all the requirements of regulations pertaining to the conduct, administration and management of the qualification or part-qualification to be assessed.

CHAPTER 8

CRITERIA FOR THE ACCREDITATION AND MONITORING OF PRIVATE ASSESSMENT BODIES

23. Standard of compliance

- (1) The quality of national external examinations is critical in determining standards in public and private education and training. The quality assurance and monitoring of assessment systems of such examinations are central to upholding the standards embodied in national qualifications or part-qualifications. These roles are undertaken by both the state and private assessment bodies.
- (2) Accreditation is granted to private assessment bodies where such organisations satisfy the requirements for accreditation as indicated in these Regulations and such supporting policies and directives as established by Umalusi.
- (3) Should a private assessment body that has obtained accreditation in terms of the requirements set out in *regulation 17(3)*, fails to adhere to, or disregard them, accreditation will be withdrawn, as contemplated in *Regulation 27(3)*.

24. Criteria for the Accreditation and Monitoring of Private Assessment Bodies to assess a qualification on the GFETQSF

- (1) The quality assurance and monitoring of assessment structures are central to the quality assurance of national external examinations which form the basis for the determination of standards in public and private general and further education and training.

- (2) The criteria for the accreditation of private assessment bodies to offer a qualification or part-qualification on the GFETQSF are grouped into the following three focus areas -
- (a) strategic leadership and management;
 - (b) assessment standards; and
 - (c) administration of assessment.

- (3) The set of criteria for the accreditation and monitoring of private assessment bodies is outlined as follows-

(a) Criterion 1: Leadership, Planning and Management

- (i) The assessment body's leadership is instructive and provides strategic direction and governance oversight based on acceptable practices.
- (ii) The strategic initiatives, interventions, policies and procedures of the assessment body promote fair, valid and reliable assessments.
- (iii) The assessment body is sustainable and financially viable.
- (iv) The assessment body demonstrates commitment to quality improvement in providing feedback annually to the institutions that are its examination centres.
- (v) The assessment body is sufficiently and professionally staffed.
- (vi) The leadership and management identify and manage the organisational risks effectively.

(b) Criterion 2: Assessment Standards

- (i) The assessment body's assessment approach and systems are credible in that assessments are administered against the policy and regulation requirements and standards of qualifications or part-qualifications registered on the General and

Further Education and Training Qualifications Framework and their intended curricula.

- (ii) The assessment body produces assessment products of an acceptable standard and ensures the credibility and quality of internal and external assessment of all its registered examination centres.
- (iii) Assessment standards and practices are benchmarked and quality assured.
- (iv) Standards of assessment are maintained and improved through appropriate and effective monitoring and moderating mechanisms.

(c) Criterion 3: Research and Development

- (i) The work of the assessment body is informed by appropriate research and assessment approaches are innovative, benchmarked and fit for purpose.
- (ii) Research findings are used to improve assessment products, systems and approaches as well as to provide meaningful feedback and guidance to education institutions in order to drive the improvement of teaching, learning and internal assessment.
- (iii) The capacity of professional and administrative staff employed in the assessment process is developed.

(d) Criterion 4: The Conduct and Administration of Examinations and/or Assessment

- (i) The private assessment body conducts credible external examinations in that it is effective and efficient in the management of all administrative and logistical processes associated with the conduct of examinations.
- (ii) Learners are registered for the examination at the commencement of the qualification or part-qualification.
- (iii) Security systems with a low tolerance for irregularities are implemented and irregularities are reported and dealt with as required in Umalusi policy and regulations.
- (iv) The assessment body meets all Umalusi's requirements in respect of the registration, resulting and certification system and is able to submit learner datasets that meet Umalusi specifications.
- (v) The assessment body has efficient and reliable systems for the capture, storage and management of learner achievement data, and is ethical in reporting and safeguarding the accuracy and security of learner results.
- (vi) The assessment body ensures that it has full ownership of its data from inception.
- (vii) All the requirements of regulations pertaining to the conduct, administration and management of an examination in respect of a qualification or part-qualification are applied and are met.
- (viii) Delivery of the examination is monitored and evaluated with the purpose of supporting continuous improvement.

(e) Criterion 5: Resulting Systems and Processes

The assessment body-

- (i) encapsulates the reliable and accurate processing and issuing of results; and
- (ii) complies with policy and regulations to maintain the integrity of the system.

CHAPTER 9

WITHDRAWAL OF ACCREDITATION

25. Rationale

- (1) Private assessment bodies accredited in terms of the regulations developed by Umalusi and approved by the Minister of Higher Education and Training in terms of *section 17A2(b)* of the *GENFETQA Act*, must be monitored by Umalusi Council in terms of *section 25(1)* of the said *Act*, to ensure continued compliance as contemplated in these Regulations.
- (2) Where a private assessment body is found to be non-compliant, Umalusi Council reserves the right in terms of *section 25(2)* of the *GENFETQA Act* to place the assessment body under close monitoring.
- (3) Umalusi may withdraw accreditation if the assessment body is found to be non-compliant with the requirements of these Regulations.

26. Procedures to be followed in the event of non-compliance by Private Assessment Bodies

- (1) In the event of non-compliance with these Regulations as contemplate in Regulation 25(2), Umalusi will-
 - (a) determine a reasonable period within which the private assessment body must comply with these Regulations;
 - (b) evaluate at the expiry of the period the remedial steps taken by the private assessment body;
 - (c) based on the decision taken in terms of *sub-regulation (1)(a)*, Umalusi may affirm or withdraw accreditation of the private assessment body; and

- (d) in withdrawing accreditation, serve notice of administrative action to withdraw the accreditation of the private assessment body concerned at an appropriate time so as to minimise implications for learners;
- (2) Once a decision to withdraw accreditation has been made and communicated, the private assessment body will not be permitted to register learners for the next examination cycle.
- (3) The private assessment body must notify its clients of the decision with immediate effect and ensure that all past and present learner data and records are secured and transferred to Umalusi in the manner prescribed by Umalusi.

27. Procedures to be followed in the event of non-compliance by Private Colleges

- (1) In terms of *section 16(5)* of the *GENFETQA Act*, the Council must perform any function consistent with the said *Act* that the Minister may determine, and must therefore in the case of non-compliance with these Regulations -
 - (a) notify the private college in writing and set out the nature and extent of the failure; and
 - (b) determine a reasonable period within which the private college must comply with the Regulations set out in this document.
- (2) At the expiry period contemplated in *sub-regulation (1)(b)*, the Council must-
 - (a) evaluate the steps taken by the private college; and
 - (b) affirm or withdraw accreditation of the private college.

- (3) Accreditation may be withdrawn if the private college-
 - (a) is found to be non-compliant with the requirements as stipulated in these Regulations; or
 - (b) fails to pay the required accreditation fees; or
 - (c) is implicated in recurrent irregularities.
- (4) Before the Umalusi Council withdraws an accreditation, it must notify the Director-General of Higher Education and Training, who is the Registrar, in terms of *section 24(1)* of the *GENFETQA Act* of its intention to withdraw the accreditation and the date of the intended withdrawal.

28. Appeals procedure

The withdrawal of accreditation status may be appealed through a formal appeals process established by Umalusi.

CHAPTER 10

FUNDING

29. Provision for funding by the Council

Section 13(1)(c) of the GENFETQA Act, makes provision for funds received by the Council in respect of fees charged for services. Accordingly, Umalusi determines annual quality assurance fees for all its services including accreditation and related processes.

CHAPTER 11

TRANSITIONAL ARRANGEMENTS AND SHORT TITLE

30. Transitional arrangements

Until such time the Minister has promulgated the *Regulations for the Quality Assurance of Private Colleges for Continuing Education and Training, offering qualifications registered on the General and Further Education and Training Qualifications Sub-framework, and the Accreditation of Private Assessment Bodies*, Umalusi's current *Policy for the Quality Assurance of Private Adult Learning Centres, Private Further Education and Training Colleges and the Accreditation of Private Assessment Bodies*, Government Gazette No. 33237 of 28 May 2010 will apply to all Private Colleges offering qualifications or part-qualifications registered on the GEFETQSF.

31. Short Title

These Regulations may be cited as the *Regulations for the Quality Assurance of Private Colleges for Continuing Education and Training, offering qualifications registered on the General and Further Education and Training Qualifications Sub-framework, and the Accreditation of Private Assessment Bodies*, and will commence on the day of its promulgation in the *Government Gazette*.

DEPARTMENT OF LABOUR

NOTICE 634 OF 2018

NOTICE IN TERMS OF SECTION 62 (7) OF THE LABOUR RELATIONS ACT 66 OF 1995 AS AMENDED (THE LRA)

PLEASE TAKE NOTICE THAT: -

1. The Bargaining Council for the Furniture Manufacturing Industry of the Western Cape (the applicant) has applied to the CCMA in terms of section 62(1) of the Labour Relations Act 66 of 1995 as amended (the LRA) for a demarcation order to the effect that certain activities of the respondent, Sign & Seal Trading 154 (Pty) Ltd t/a Davidson's Boards fall within its registered scope and jurisdiction.
2. The respondent's business is involved in the wholesale distribution of wooden panel boards. The applicant seeks jurisdiction of the part of the business that is regarded as adding value or upgrading services to the distribution of wooden boards. It will request a demarcation order that certain parts of the respondent's business should be subject to its certificate of registration and collective agreements.
3. The respondent, Sign & Seal Trading 154 (Pty) Ltd t/a Davidson's boards, is opposing the demarcation application on the basis that it will argue that its activities and scope do not fall under the jurisdiction of the bargaining council.
2. The CCMA believes that the question raised by this demarcation application is potentially of substantial importance. Of relevance is the fact that the applicant believes there are other similar businesses that perform the same activities as the respondent that do not fall under the scope of the applicant. The applicant intends to pursue these businesses that are not registered with the council in its attempt to have these businesses registered. It is therefore apparent that there may be other businesses or entities that could potentially be affected by the outcome of this application. Such entities should have the right to make representations to the CCMA.
3. Written representations may be made within 21 calendar days of the date of publication of this notice, and should be clearly marked with reference number **WECT 12547-18** and directed to: -

Contact: **Ms Shoneez Abrahams**

Tel: **021 469 0118**

Fax: **021 465 7193**

Email: **ShoneezA@CCMA.org.za**

Hand delivery: **3rd Floor, CCMA House
78 Darling Street
Cape Town, 8001**

**DEPARTMENT OF RURAL DEVELOPMENT AND LAND REFORM
NOTICE 635 OF 2018**

**GENERAL NOTICE IN TERMS OF THE RESTITUTION OF LAND RIGHTS ACT 1994,
(ACT No. 22 OF 1994) AS AMENDED.**

Notice is hereby given in terms of Section 11(1) of the Restitution of Land Rights Act, 1994 (Act No. 22 of 1994), as amended. These claims for the restitution of land rights have been submitted to the Regional Land Claims Commissioner for the Western Cape. The particulars regarding this claim are as follow:

Reference Number	: KRK6/2/3/A/1/0/2101/11/ T375
Dispossessed Person	: Beatrice Tandiswa Tiwani
Property Description	: Erf 15854 Cape Town
Extent	: 264m²
Capacity	: Tenant
Date of Occupation	: From 1953 to 1963
Date Submitted	: 18-08-1998

The Regional Land Claims Commission will investigate this claim in terms of provisions of the Act in due course. Any party who has an interest in the above-mentioned land is hereby invited to submit, within 60 days from the publication of this notice, any comments information to:

The Regional Land Claims Commission: Western Cape
Private Bag X9163
Cape Town
8000

Tel: (021) 409-0300
Fax: (021) 424-5146

APPROVED.....

MR L.H MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER
DATE: 2018/02/27

CHECKED.....

SOUTH AFRICAN RESERVE BANK**NOTICE 636 OF 2018****Notice and Order of Forfeiture**

Notice of Forfeiture to the State of money in terms of the provisions of Exchange Control Regulation 22B made under Section 9 of the Currency and Exchanges Act, 1933 (Act No. 9 of 1933), as amended, as promulgated by Government Notice No. R.1111 of 1961-12-01 in respect of the money of:

Kazina Import and Export (Pty) Limited
(Registration number 2014/269971/07)

of:

91 Putney Street
Brixton
Johannesburg
2092

and/or

100 Beam Street
Kimberley
8301

Be pleased to take notice that:

1. The Minister of Finance has, by virtue of the provisions of Exchange Control Regulation 22E delegated all the functions and/or powers conferred upon the Treasury by the provisions of the Exchange Control Regulations [with the exception of the functions and/or powers conferred upon the Treasury by Exchange Control Regulations 3(5) and (8), 20 and 22, but which exception does not include the functions and/or powers under Exchange Control Regulations 22A, 22B, 22C and 22D], and assigned the duties imposed thereunder on the Treasury, to, *inter alia*, the Governor or the Deputy Governor of the South African Reserve Bank.
2. By virtue of the functions, powers and/or duties vested in me, in my capacity as the Deputy Governor of the South African Reserve Bank, in terms of the delegation and assignment of the functions, powers and/or duties referred to in 1 above, I hereby give notice of a decision to forfeit to the State the following money and I hereby declare and order forfeit to the State the following money, namely:
 - 2.1 the amount of R98 402.91 being capital standing to the credit of Kazina Import and Export (Pty) Limited, in account number 62511511223, held with Firststrand Bank Limited, together with any interest thereon and/or other accrual thereto.
3. The date upon which the money specified in 2 above is hereby forfeited to the State is the date upon which this Notice of Forfeiture is published in this Gazette.
4. The money specified in 2 above shall be disposed of by deposit thereof to the National Revenue Fund.
5. This Notice also constitutes a written order, as contemplated in Exchange Control Regulation 22B, in terms of which the money specified in 2 above is hereby forfeited to the State.
6. Signed at Pretoria on this 26 day of SEPTEMBER 2018.



K Naidoo
Deputy Governor
South African Reserve Bank

SOUTH AFRICAN RESERVE BANK**NOTICE 637 OF 2018****Notice and Order of Forfeiture**

Notice of Forfeiture to the State of money in terms of the provisions of Exchange Control Regulation 22B made under section 9 of the Currency and Exchanges Act, 1933 (Act No. 9 of 1933), as amended, as promulgated by Government Notice No. R.1111 of 1961-12-01 in respect of the money of:

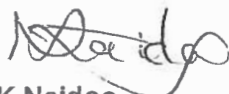
Mr Bilong Zheng (Passport number G38326548 People's Republic of China (hereinafter referred to as the Respondent))

of:

38 Malherbe Street
Albemarle
1401

Be pleased to take notice that:

1. The Minister of Finance has, by virtue of the provisions of Regulation 22E of the Exchange Control Regulations delegated all the functions and/or powers conferred upon the Treasury by the provisions of the Exchange Control Regulations [with the exception of the functions and/or powers conferred upon the Treasury by Regulations 3(5) and (8), 20 and 22, but which exception does not include the functions and/or powers under Exchange Control Regulations 22A, 22B, 22C and 22D], and assigned the duties imposed thereunder on the Treasury, to the Governor or Deputy Governors of the South African Reserve Bank.
2. By virtue of the functions, powers and/or duties vested in me, in my capacity as a Deputy Governor of the South African Reserve Bank, in terms of the delegation and assignment of the functions, powers and/or duties referred to in 1 above, I hereby give notice of a decision to forfeit to the State the following money and I hereby declare and order forfeit to the State the following money, namely:
 - 2.1 The amount of R97 888-19, being capital standing to the credit of the Respondent in account number 4089636963, held with Absa Bank Limited, together with any interest thereon and/or accrual to such capital.
3. The date upon which the money specified in 2 above is hereby forfeited to the State is the date upon which this Notice and Order of Forfeiture is published in this Gazette.
4. The money specified in 2 above shall be disposed of by depositing it into the National Revenue Fund.
5. This Notice also constitutes a written order, as contemplated in Exchange Control Regulation 22B, in terms of which the money specified in 2 above is hereby forfeited to the State.
6. Signed at Pretoria on this 12 day of September 2018.



K Naidoo
Deputy Governor
South African Reserve Bank

**SOUTH AFRICAN RESERVE BANK
NOTICE 638 OF 2018**

Notice and Order of Forfeiture

Notice of Forfeiture to the State of money in terms of the provisions of Exchange Control Regulation 22B made under section 9 of the Currency and Exchanges Act, 1933 (Act No. 9 of 1933), as amended, as promulgated by Government Notice No. R.1111 of 1961-12-01 in respect of the money of:

Ms Kanwal Irshad (identity number 6907030343081) and/or

Mr Farhad Hoomer (identity number 7611185236087)

(hereinafter referred to as the Respondents)

of:

72 Riley Road
Overport
Durban

Be pleased to take notice that:

1. The Minister of Finance has, by virtue of the provisions of Regulation 22E delegated all the functions and/or powers conferred upon the Treasury by the provisions of the Exchange Control Regulations [with the exception of the functions and/or powers conferred upon the Treasury by Regulations 3(5) and (8), 20 and 22, but which exception does not include the functions and/or powers under Exchange Control Regulations 22A, 22B, 22C and 22D], and assigned the duties imposed thereunder on the Treasury, to, inter alia, the Governor or Deputy Governors of the South African Reserve Bank.
2. By virtue of the functions, powers and/or duties vested in me, in my capacity as a Deputy Governor of the South African Reserve Bank, in terms of the delegation and assignment of the functions, powers and/or duties referred to in 1 above, I hereby give notice of a decision to forfeit to the State the following money and I hereby declare and order forfeit to the State the following money, namely:
 - 2.1 the capital amount of USD50 000,00 seized at King Shaka International Airport on 2016-03-03 and currently held at the South African Reserve Bank, Head Office, Pretoria.
3. The date upon which the money specified in 2 above is hereby forfeited to the State is the date upon which this Notice and order of Forfeiture is published in this Gazette.
4. The money specified in 2 above shall be disposed of by depositing it into the National Revenue Fund.
5. This Notice also constitutes a written order, as contemplated in Exchange Control Regulation 22B, in terms of which the money specified in 2 above is hereby forfeited to the State.
6. Signed at Pretoria on this 1 day of OCTOBER 2018.



**K Naidoo
Deputy Governor
South African Reserve Bank**

DEPARTMENT OF TRADE AND INDUSTRY

NOTICE 639 OF 2018

INTERNATIONAL TRADE ADMINISTRATION COMMISSION OF SOUTH AFRICA**CORRECTION NOTICE**

This notice serve as a correction to the last sentence in the second paragraph of Notice No. 601 of 2018 in *Government Gazette* No. 41928 published on 28 September 2018 that read, "A detailed response to the Commission's sunset review questionnaire was received from Ussher Inventions (Pty) Ltd (t/a Lasher Tools) on 17 April 2017". The correct wording reads, "A detailed response to the Commission's sunset review questionnaire was received from Ussher Inventions (Pty) Ltd (t/a Lasher Tools) on 17 April 2018".

Enquiries may be directed to the investigating officers, Mr. Pfananani Rodney Muumba at +27 12 394 3689 or Ms. Portia Chuma at + 27 12 394 5848 or at fax number +27 12 394 0518.

BOARD NOTICES • RAADSKENNISGEWINGS

BOARD NOTICE 110 OF 2018

**INVITATION TO COMMENT ON EXPOSURE DRAFT ISSUED BY THE ACCOUNTING STANDARDS BOARD****Issued: 12 OCTOBER 2018**

The Accounting Standards Board (the Board) invites comment on the Exposure Draft on *Identifying Projects to Prioritise on the ASB's Work Programme for 1 April 2020 to 31 March 2023* (ED 171). Comment is due by **28 February 2019**.

Any input received on the proposals in ED 171 will be used in identifying what activities the ASB should undertake during 2021 to 2023. Providing comments on the Exposure Draft will ensure that the Board's work is relevant and responds to stakeholders' needs.

All those affected by, or who are interested in the Exposure Draft, are encouraged to provide a written response to the Board.

Responses to the Exposure Draft should be received by the comment deadline, as indicated above.

Copies of the document

The document is available electronically on the Board's website – <http://www.asb.co.za>, or can be obtained by contacting the Board's offices on 011 697 0660 (telephone), or 011 697 0666 (fax).

Comment can be emailed to info@asb.co.za or can be submitted in writing to:

Accounting Standards Board

PO Box 7001

Halfway House

1685

We look forward to receiving your responses.

BOARD NOTICE 111 OF 2018**AGRICLTURAL PRODUCE AGENTS ACT,1992****(ACT NO 12 OF 1992)****UNCLAIMED MONIES PAYBLE TO PRINCIPALS OF FRESH PRODUCE AGENTS**

In terms of Section 21(1) of the Agricultural Produce Agents Act, 1992 (Act No. 12 of 1992) notice is hereby given of unclaimed monies specified in the Schedule, that have been paid to the Registrar of the Agricultural Produce Agents Council in terms of Section 21(2) of the Act.

Any person who is of the opinion that he/she is entitled to an indicated amount shall claim it within 90 days from the date of publication of this notice by means of a statement, duly sworn and confirmed to the Registrar, Agricultural Produce Agents Council, Suite 69, Private Bag X9, East rand, 1462, and in which the following particulars are furnished:

- a) The full name and address of claimant;
- b) The names of the fresh produce agent concerned;
- c) The amount claimed and quantity of produce for which it is claimed; and
- d) The date on which and the address at which the produce concerned were delivered.



S Nel

ACTING REGISTRAR: AGRICLTURAL PRODUCE AGENTS COUNCIL



Agricultural Produce Agents Council

Unclaimed monies details list

Reporting month:

February 2018

Period reflected:

2017-09-01 to 2018-02-28

Agency	Producer (Surname and Initials)	Sum of Balance
Botha Roodt Johannesburg Market Agency	Mabitsela F	656.91
Botha Roodt Johannesburg Market Agency	Davano Fresh Produce	72.17
Botha Roodt Johannesburg Market Agency	Malepa S C	134.74
Botha Roodt Johannesburg Market Agency	Marambo SM S	138.01
Botha Roodt Johannesburg Market Agency	Kgotlelelo Farmers	153.16
Botha Roodt Johannesburg Market Agency	Deal B.D.P	273.03
Botha Roodt Johannesburg Market Agency Total		1428.02
CL de Villiers Market Agents	T J Marakoena	435.33
CL de Villiers Market Agents	NTK Khoza	81.81
CL de Villiers Market Agents Total		517.14
DW Fresh Jhb Market Agency	Mponeng Poultry	461.74
DW Fresh Jhb Market Agency	Mulaudzi Fanie	63.66
DW Fresh Jhb Market Agency Total		525.4
Egoly Johannesburg Market Agency	Greenpak	31256.47
Egoly Johannesburg Market Agency	Westside Trading 683Pty	1249.95
Egoly Johannesburg Market Agency	Lefopane	82.93
Egoly Johannesburg Market Agency	Netshipale A.B	717.65
Egoly Johannesburg Market Agency	Stoney Marketing	22209.12
Egoly Johannesburg Market Agency	Mukwevho P	606.66
Egoly Johannesburg Market Agency	Patrysbult Boerdery	0.25
Egoly Johannesburg Market Agency	Mamtepa Joseph	3271.89
Egoly Johannesburg Market Agency	Reddy Bela Bela	1043.52
Egoly Johannesburg Market Agency	Netshungani S.R	502.46
Egoly Johannesburg Market Agency	Cider Farms	121.21
Egoly Johannesburg Market Agency	Netshungani S.R	45.85
Egoly Johannesburg Market Agency	Krout Spout	65.75
Egoly Johannesburg Market Agency	Ligthelm Hardus	122.92
Egoly Johannesburg Market Agency	Poly Veg	3398.56
Egoly Johannesburg Market Agency	Mathebula	348.92
Egoly Johannesburg Market Agency	Matshusa	104.64
Egoly Johannesburg Market Agency	Poly - Veg	79.83
Egoly Johannesburg Market Agency	Mpfumi R	3587.41
Egoly Johannesburg Market Agency	Mathebula T.S	685.05
Egoly Johannesburg Market Agency	Ovation	781.93
Egoly Johannesburg Market Agency	In 2 Food	21.99
Egoly Johannesburg Market Agency	Rorich	29454.48
Egoly Johannesburg Market Agency	J B Schoeman	12209.28
Egoly Johannesburg Market Agency Total		111968.72
Exec-U-Fruit Market Agency	Happy VALLEY	2095.57
Exec-U-Fruit Market Agency	Muade M.W	966.78
Exec-U-Fruit Market Agency	Phaswana M.E	149.23
Exec-U-Fruit Market Agency	Munyai N	322.72
Exec-U-Fruit Market Agency	Khan S.S	1018.2
Exec-U-Fruit Market Agency	Machekele L.V	218.58
Exec-U-Fruit Market Agency	Manyama S.J	319.31
Exec-U-Fruit Market Agency	Manyuma M	408.93
Exec-U-Fruit Market Agency	Produce Hub	82.9

Exec-U-Fruit Market Agency	Mafhuwa K	157.91
Exec-U-Fruit Market Agency	Ndlovu M.G	1808.44
Exec-U-Fruit Market Agency	Nemalele M W	2331.85
Exec-U-Fruit Market Agency	Denga R N	193.54
Exec-U-Fruit Market Agency	Crystal Cool Logistics	5129.76
Exec-U-Fruit Market Agency	Tshangwane Primary	595.3
Exec-U-Fruit Market Agency	Selelo Farming	524.85
Exec-U-Fruit Market Agency Total		16323.87
Farmers Direct Market Agency	Malabati	65.61
Farmers Direct Market Agency	Kama Farm	1886.91
Farmers Direct Market Agency Total		1952.52
Farmers Trust Market Agents	De Beer JB	2815.14
Farmers Trust Market Agents	Nekhumbé MT	94.66
Farmers Trust Market Agents	Ramaila Bdy	988.45
Farmers Trust Market Agents	Kurhula COOP	173.56
Farmers Trust Market Agents	Dos Santos N	712.49
Farmers Trust Market Agents	Mahlo RM	951.62
Farmers Trust Market Agents	Moeketsi Mohapi	6416.08
Farmers Trust Market Agents	Sunag Trading	1366.85
Farmers Trust Market Agents	Budget Fruit	1045.06
Farmers Trust Market Agents Total		14563.91
Marco Market Agency	Kwinda M	483.35
Marco Market Agency	Musweni MR	418.29
Marco Market Agency	Thabela V	144.89
Marco Market Agency	Shongani B	755.98
Marco Market Agency	Gumbu L S	412.94
Marco Market Agency	Kwinda T P	1793.81
Marco Market Agency	Fruits from Heaven	478
Marco Market Agency	Kubaayi LF	1122.37
Marco Market Agency	Netshawelo TM	206.39
Marco Market Agency	Tsuxekami Drop In Centre	260.24
Marco Market Agency Total		6076.26
Metro Marek Agency	Tshiboho O.U	321.7
Metro Marek Agency	Siwada A.S	247.22
Metro Marek Agency	Rambuda AN	862.3
Metro Marek Agency Total		1431.22
Noordvaal Market Agency	JCB Works	460.67
Noordvaal Market Agency	Mavhondo E.E	366.09
Noordvaal Market Agency	VS Boerdery	2912.03
Noordvaal Market Agency	Leeukop Boerdery	74396.6
Noordvaal Market Agency	Shandukani	463.24
Noordvaal Market Agency	Popela G	948.79
Noordvaal Market Agency	Wensleydale	1157.62
Noordvaal Market Agency	Forte Fresh	355.82
Noordvaal Market Agency	Khopo Drop in Centre	650.51
Noordvaal Market Agency	Magaliesberg Steenvrugte	6388.59
Noordvaal Market Agency	Ndumiso	171.5
Noordvaal Market Agency	Tumi Mushwana	399.56
Noordvaal Market Agency	Madikor 16	1951.01
Noordvaal Market Agency	P du Plessis	3074.1
Noordvaal Market Agency	EL Verpakking	85.74
Noordvaal Market Agency	J Voges	317.27
Noordvaal Market Agency	A Van Voorst	8.79
Noordvaal Market Agency	Posraams Boerdert	1303.55
Noordvaal Market Agency Total		95411.48
Pula Nala Market Agency	Precedential Agri Holdings	136.39

Pula Nala Market Agency Total		136.39
RSA Johannesburg Market Agency	Thomson WD	48287.83
RSA Johannesburg Market Agency	Molala NE	318.71
RSA Johannesburg Market Agency	TKM Investments	515.62
RSA Johannesburg Market Agency Total		49122.16
Tshwane Green Market Agency	D + M Fresh Prodce	1038.05
Tshwane Green Market Agency	Moagi Fruit And Veg	402.99
Tshwane Green Market Agency	Lefatshelarona Trading	4.05
Tshwane Green Market Agency Total		1445.09
Wenpro Johannesburg Market Agency	SMF	623.01
Wenpro Johannesburg Market Agency	Maxuma s.l	688.94
Wenpro Johannesburg Market Agency	Li Jian Jun	1329.72
Wenpro Johannesburg Market Agency	Ramaliba M.J	180.37
Wenpro Johannesburg Market Agency	Mokgophana M.I	65.69
Wenpro Johannesburg Market Agency	Westside Trading 683Pty	1538.17
Wenpro Johannesburg Market Agency	Maputu T.M	83.91
Wenpro Johannesburg Market Agency	Luxemburg Bdry	1866.33
Wenpro Johannesburg Market Agency	Mabunda Farmers	3002.94
Wenpro Johannesburg Market Agency	Farmers Direct	52.88
Wenpro Johannesburg Market Agency	Mukwevho R.S	3.71
Wenpro Johannesburg Market Agency	Ramano KK	55.79
Wenpro Johannesburg Market Agency	Mbambala H.G	681.44
Wenpro Johannesburg Market Agency	Maslas R.P	160.38
Wenpro Johannesburg Market Agency	Seroba A.M	283.77
Wenpro Johannesburg Market Agency	Queen Product	1795.1
Wenpro Johannesburg Market Agency	AT Source Agri	327.97
Wenpro Johannesburg Market Agency	Mukwevho R S	256.93
Wenpro Johannesburg Market Agency	Kwinda	79.47
Wenpro Johannesburg Market Agency	Sigebe M	474.35
Wenpro Johannesburg Market Agency	Nefolovhodwe N A	399.51
Wenpro Johannesburg Market Agency Total		13950.38
Grand Total		R 314,852.56

BOARD NOTICE 112 OF 2018

HEALTH PROFESSIONS COUNCIL OF SOUTH AFRICA

HEALTH PROFESSIONS ACT, 1974 (ACT NO. 56 OF 1974)

RULES RELATING TO THE PAYMENT OF FEES FOR ACCREDITATION OF EDUCATION AND TRAINING OFFERED BY EDUCATION AND TRAINING INSTITUTIONS UNDER THE HEALTH PROFESSIONS ACT, 1974

The Health Professions Council of South Africa has, under section 61A (1) (e) (vi) of the Health Professions Act, 1974 (Act No. 56 of 1974), made the rules in the schedule.

SCHEDULE

1. In this Schedule **“the Act”** means the Health Professions Act, 1974 (Act No.56 of 1974), and any word or expression to which a meaning has been assigned in the Act shall have that meaning, and, unless the context otherwise indicates-

“accredit” means the recognition or certification, in terms of the Act, of education and training programme by council or the relevant professional board as meeting the prescribed education and training requirement for registration in terms of the Act.

“accreditation” has a corresponding meaning to the word **“accredit”**;

“board” means a professional board established under section 15 of the Act;

“council” means the health professions council of South Africa established under section 2 of the Act;

“education and training” means the contents of a curriculum in relation to a course of study towards a qualification offered by an education and training institution;

“education and training institution” means an institution or facility which offers or provides any education and training having as its object to qualify any person for the practising of any health profession to which the provisions of the Act apply or performance of any act defined as an act which pertains to the scope of a registered profession under the Act; and

“programme” means a particular course of study in a profession, towards an undergraduate or postgraduate qualification prescribed for registration of persons in a registered profession under the Act.

- 2 (1) The fees payable to council for accreditation of education and training offered by any education and training institution shall be determined by council on a cost recovery basis for each accreditation.

(2) The fees for:

- (a) accreditation of a new programme,
- (b) review of an existing programme,
- (c) repeat or follow-up investigation to check on compliance with conditions of accreditation, or
- (d) restoration of accreditation after withdrawal of accreditation by the relevant board

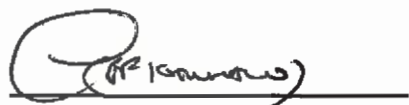
shall be payable within 30 days after the issuing of the invoice by council

3. The board may suspend or withdraw an accreditation of education and training offered by an education and training institution if the fees referred to in these rules are not paid within the stipulated period.

Repeal

4. The rules relating to the payment of fees for accreditation of education and training offered by education and training institutions under the Health Professions Act, 1974 as

published under Board Notice No. 43 in *Government Gazette* No. 32043 of 27 March 2009
are hereby repealed.

A handwritten signature in black ink, appearing to read 'Adv Phelelani Khumalo', is written over a horizontal line.

ADV PHELELANI KHUMALO

ACTING REGISTRAR

DATE: 14/08/2018

BOARD NOTICE 113 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Council in accordance with the settlement agreement signed at Protea Hotel Ridge Umhlanga, Durban on 07 August 2017, into alleged improper conduct of the registered person.

Name of Person: Preven Naicker.

Registration Number: ST2400

Nature of the offence

Guilty of contravention of Rule 1.1 and 5.9 of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Preven Naicker is fined R10 000.00 (Ten thousand rand) in terms of section 32 (3) (a) (ii) of the Act and the fine is payable within 4 months of signing the agreement.

BOARD NOTICE 114 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Council in accordance with the settlement agreement signed at Protea Hotel Ridge Umhlanga, Durban on 07 August 2017, into alleged improper conduct of the registered person.

Name of Person: Rishaal Bhojairam

Registration Number: ST0243

Nature of the offence

Guilty of contravention of Rule 1.1, 5.1 and 5.9 of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Rishaal Bhojairam is fined of R12 500.00 (twelve thousand five rand) in terms of section 32 (3) (a) (ii) of the Act and payable within 5 months of signing the agreement.

BOARD NOTICE 115 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal held at Protea Hotel, 14 Palm Boulevard Umhlanga, on 07 August 2017, into alleged improper conduct against Usthani Govind.

Name of Person: Avasha Singh

Registration Number: PAD 20999

Nature of the offence

Guilty of contravention of Rule 1.1 (1.1.3) and 4.1 of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Ms Avasha Singh is fined R6 000 (Six thousand rand) in terms of section 32 (3) (a) (ii) of the Architectural Profession Act, 2000 (Act No. 44 of 2000).
- Ms Avasha Singh is suspended in terms of section 32 (3) (a) (iii) of the Act for the period of 12 months with effect from 05 December 2017.

BOARD NOTICE 116 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held at Rivonia, Sandton on 05 December 2016, into alleged improper conduct of a registered person.

Name of Person: Denver Smith

Registration Number: PSAT20613

Nature of the offence:

Guilty of contravention of Rule 4.1 and 5.10 of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Denver Smith is reprimanded in terms of section 32 (3) (a) (i) of the Act.
- Mr Denver Smith is fined R3 500.00 (Three thousand five hundred rand) in terms of section 32 (3) (a) (ii) of the Act.

BOARD NOTICE 117 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held on 09 May 2016 at 1st Floor Lakeside Place, Corner Ernest Oppenheimer and Queen Street, Bruma, into alleged improper conduct of a registered person.

Name of Person: Ganesan Govender

Registration Number: PAD1646

Nature of the offence

Guilty of contravention of Rule 1.1 and 4.1 of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Ganesan Govender's registration with the South African Council for the Architectural Profession is cancelled in terms of section 32(3) (iv) of the Architectural Profession Act (Act No. 44 of 2000).

BOARD NOTICE 118 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held at Rivonia, Johannesburg on 05 December 2016, into alleged improper conduct of a registered person.

Name of Person: Ernest Munarini

Registration Number: T 1615

Nature of the offence

Guilty of contravention of Rule 1.1 (1.1.2), 4.1 and 5.10 (5.9.2) & (5.9.3) of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Ernest Munarini is fined R50 000.00 (fifty thousand rands) in terms of Section 32 (3) (a) (ii) of the Act.

BOARD NOTICE 119 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held at Fire and Ice Protea Hotel in Cape Town on 19 July 2017 , into alleged improper conduct of a registered person.

Name of Person: Wayne Michael du Plessis

Registration Number: PSAT 1248

Nature of the offence

Guilty of contravention of Rule 4.1, 5.10 and 3.1 of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Wayne Michael du Plessis is fined R30 000.00 (thirty thousand rand) in terms of section 32 (3) (a) (ii) of the Act.

BOARD NOTICE 120 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held at Fire and Ice Protea Hotel in Cape Town on 18 July 2017 , into alleged improper conduct of a registered person.

Name of Person: John During

Registration Number: PrArch 6985

Nature of the offence

Guilty of contravention of Rule 4.1 of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr John During is fined R20 000 (twenty thousand rand) in terms of section 32 (3) (a) (ii) of the Act, and R10 000.00 (ten thousand rand) of the fine is suspended for a period of 12 months on condition that that he is not found guilty of contravention of a similar offence within the period of suspension. The fine is payable within a period of a calendar month after receipt of this ruling.

BOARD NOTICE 121 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held at 51 Wessel Road, Right wing in Rivonia on 13 July 2017 , into alleged improper conduct of a registered person.

Name of Person: Kgwaripane Mashego

Registration Number: PAT 20694

Nature of the offence

Guilty of contravention of Rules 4.1 and 1.1. (1.1.2) of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Kgwaripane Mashego is fined R15 000.00 (fifteen thousand rand) in terms of section 32 (3) (a) (ii) of the Act, and the fine is payable within 30 calendar days.
- Furthermore, Mr Mashego is reprimanded in terms of section 32 (3) (a) (i) of the Act.

BOARD NOTICE 122 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held at Fire and Ice Protea Hotel in Cape Town on 20 July 2017 , into alleged improper conduct of a registered person.

Name of Person: Neill Ellman

Registration Number: PSAT 20976

Nature of the offence

Guilty of contravention of Rule 4.1 and 5.1 (9.5.2) of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Neill Ellman is fined R10 000.00 (ten thousand rand) in terms of section 32 (3) (a) (ii) of the Act, and R5 000.00 (five thousand rand) of this amount is suspended for a period of one (1) year on condition that he is not found guilty of the same offences during this period.

BOARD NOTICE 123 OF 2018**SOUTH AFRICAN COUNCIL FOR THE ARCHITECTURAL PROFESSION**

Publication in terms of section 32(5) of the South African Council for the Architectural Profession Act No 44 of 2000 ("The Act") of the finding and sanction imposed by the Disciplinary Tribunal at a disciplinary hearing held at Fire and Ice Protea Hotel in Cape Town on 18 July 2017 , into alleged improper conduct of a registered person.

Name of Person: Wisdom Chishimba

Registration Number: PrArch6990

Nature of the offence

Guilty of contravention of Rule 1.1 (1.1.2) of the Code of Professional Conduct for registered persons promulgated under Board Notice 154 of 2009 Government Gazette No 32731 of 27 November 2009.

Sanction:

- Mr Wisdom Chishimba is fined R25 000.00 (twenty five thousand rand) in terms of section 32 (3) (a) (ii) of the Architectural Profession Act, and the fine is payable within 30 calendar days.

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Siraj Rizvi (012) 748-6380 (Siraj.Rizvi@gpw.gov.za)

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