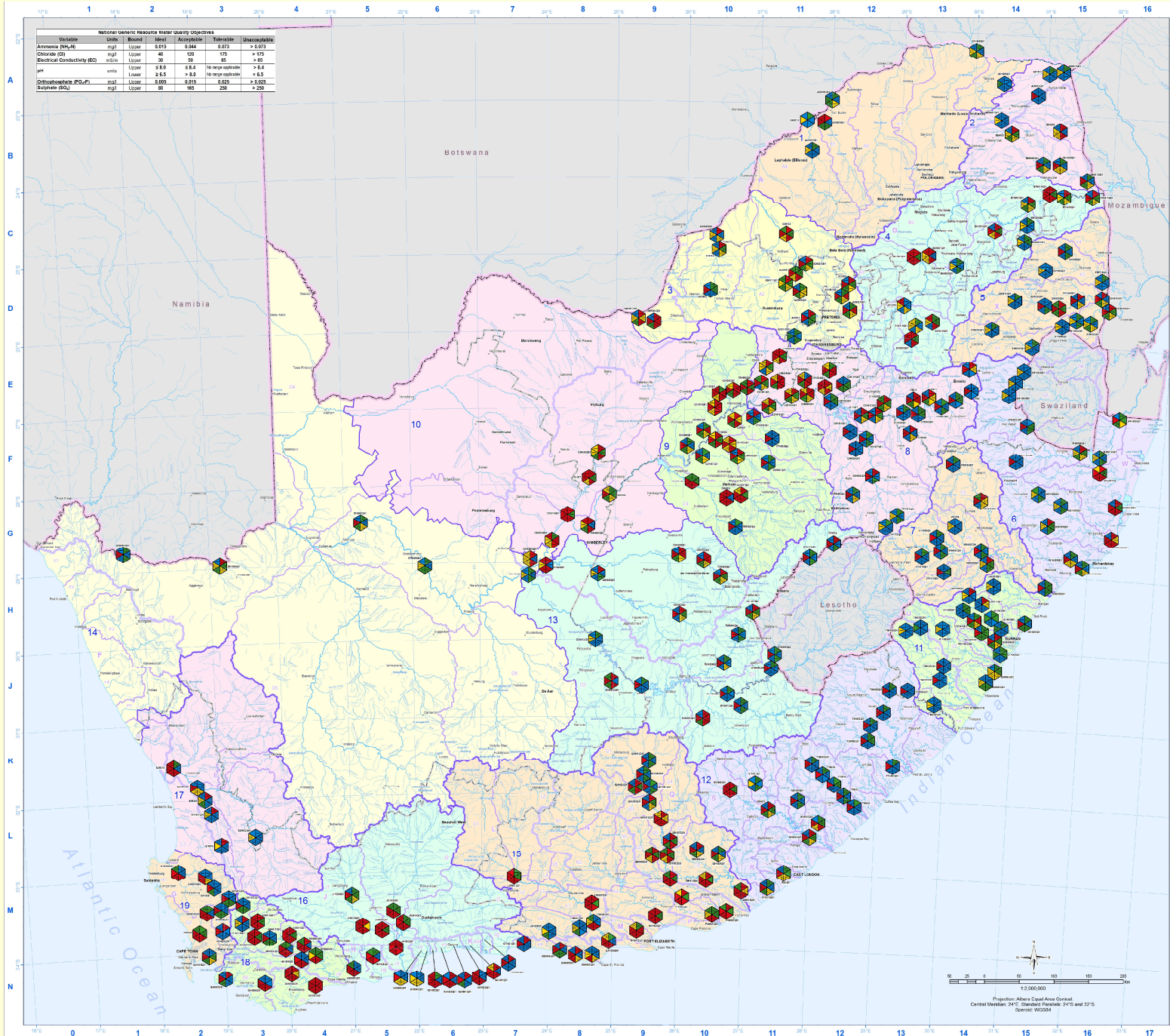


# South Africa: Surface water quality status compared to generic RWQO's

Water Quality Monitoring Points	Variable	Units	Bound	Ideal	Acceptable	Tolerable	Unacceptable
A101	Ammonia (NH <sub>3</sub> -N)	mg/l	Lower	0.015	0.044	0.073	> 0.073
A102	Chloride (Cl)	mg/l	Lower	40	120	175	> 175
A103	Electrical Conductivity (EC)	µS/cm	Lower	30	50	85	> 85
A104	pH	units	Lower	6.5	8.5	No range outside	< 6.5
A105	Orthophosphate (PO <sub>4</sub> -P)	mg/l	Lower	0.005	0.015	0.025	> 0.025
A106	Dissolved Oxygen (DO)	mg/l	Lower	80	100	120	> 120



**Map Description**

This water quality data has been collated from data available on the Water Management System (WMS). The monitoring point data available in WMS from 1 January 2006 to 31 December 2008 was used to determine the water quality status. A process of monitoring point selection was undertaken to select appropriate water quality sites per secondary drainage region. Generic water quality objectives were developed for South Africa and the current water quality for selected variables at each monitoring point was compared to these objectives to determine compliance.

**Surface Water Quality Status (2006 - 2008)**

Legend for Surface Water Quality Status (2006 - 2008):

- Ammonia (NH<sub>3</sub>-N)
- Chloride (Cl)
- Electrical Conductivity (EC)
- pH
- Orthophosphate (PO<sub>4</sub>-P)
- Dissolved Oxygen (DO)

**Water Quality Fitness for Use Category Indicators**

- Not Acceptable
- Acceptable
- Tolerable
- Unacceptable

**Water Quality Trends (1996 - 2008)**

- Improving Water Quality
- Deteriorating Water Quality
- Stable Water Quality

**Legend**

- City / Town
- River
- Urban
- Provincial Boundary
- International Boundary
- Municipal Boundary
- Water Boundary
- Primary Drainage Region
- Secondary Drainage Region

**Water Management Areas**

1. Limpopo
2. Lesotho and Swaziland
3. Caledon (West) and Main
4. Caledon
5. KwaZulu
6. Lesotho to Mafikeng
7. Thabazimbi
8. Upper Orange
9. Middle Vaal
10. Lower Vaal
11. Mokk to Unaiakulu
12. Mzimba to KwaZulu
13. Upper Orange
14. Lower Orange
15. Fish to Tlokweng
16. Gwaai
17. Orange/Don
18. Swaai
19. Berg

**Data Acknowledgements**

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**Disclaimer**

Although the information has been collated from data available on the Water Management System (WMS), the Department of Water Affairs and Forestry does not accept any liability for the accuracy, reliability, completeness or timeliness of the information.

**Surface Water Quality Status Map: South Africa (Version 1.0)**

Period of data analysis: 2006 - 2008

Map Scale: 1:2,000,000

Map Ref: (M08\_254) (Public: RSA\_WaterQuality2008\_V1.0)

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