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**Landscapes**  
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Appendix

*Regional Water  
Resources, Watercourses  
and Wetlands Snapshot*



## Appendix G: Regional water resources, waterways and wetlands snapshot

This appendix provides a number of figures describing the water resources of the Peel-Harvey Region.

- Figure 1 shows the watercourse condition rating of rivers, creeks and drains in the Peel-Harvey Region. The assessments, conducted in 2001 by the then Water and Rivers Commission, are the best available regional-scale dataset of watercourse condition available.
- Figure 2 shows the mapping of wetlands according to management category, as assessed by the State Government and Department of Parks and Wildlife. The figure shows the extensive nature of palusplains, damplands and sumplands over the Coastal Plain. Most of these wetlands have been cleared, drained and modified and assessed as Multiple Use category wetlands. Intact wetlands are shown as Conservation Category Wetlands (CCW) or Resource Enhancement Wetlands (REW). State Government policy supports the retention, protection and management of CCW and REW wetlands (Water and Rivers Commission, 2001).
- Figures 3 and 4 show the average annual loads of phosphorus and nitrogen per subcatchment of the Peel-Harvey Catchment, respectively. This information is provided by the Department of Water and based on hydrological and nutrient modelling studies (Kelsey *et al*, 2011).
- Figures 5 and 6 provide undated information recently released by the Department of Water on total phosphorus and total nitrogen loads and trends per coastal plain subcatchment (Department of Water, 2014). The water quality trends are for the five year period up to 2009.
- Figure 7 maps out the major water management areas in the Region as defined under legislation. These include Public Drinking Water Supply Areas and Groundwater Areas proclaimed under the *Rights in Water and Irrigation Act 1914*. The map is taken from Land Assessment (2005).

### References used in this appendix.

Department of Water (2014, unpublished) *2010 Subcatchment Report cards for the Peel-Harvey Coastal Catchment*, as published on the Peel-Harvey Catchment Council website: [http://www.peel-harvey.org.au/wp-content/uploads/PH\\_TP\\_StatusTrend\\_2009.pdf](http://www.peel-harvey.org.au/wp-content/uploads/PH_TP_StatusTrend_2009.pdf), accessed on 16 June 2014, Perth, Western Australia.

Kelsey P, Hall J, Kretschmer P, Quinton B, & Shakya D (2011) *Hydrological and nutrient modelling of the peel-Harvey Catchment*, Department of Water Technical Series Report No 33, February 2011, Department of Water, Perth Western Australia

Land Assessment Pty Ltd (2005) *Peel-Harvey Catchment Natural Resource Management Plan (Draft)*, A report to the Peel-Harvey Catchment Council, Mandurah, Western Australia.

Water and Rivers Commission (2001) *Wetlands Position Statement*, Water and Rivers Commission, Perth, Western Australia.

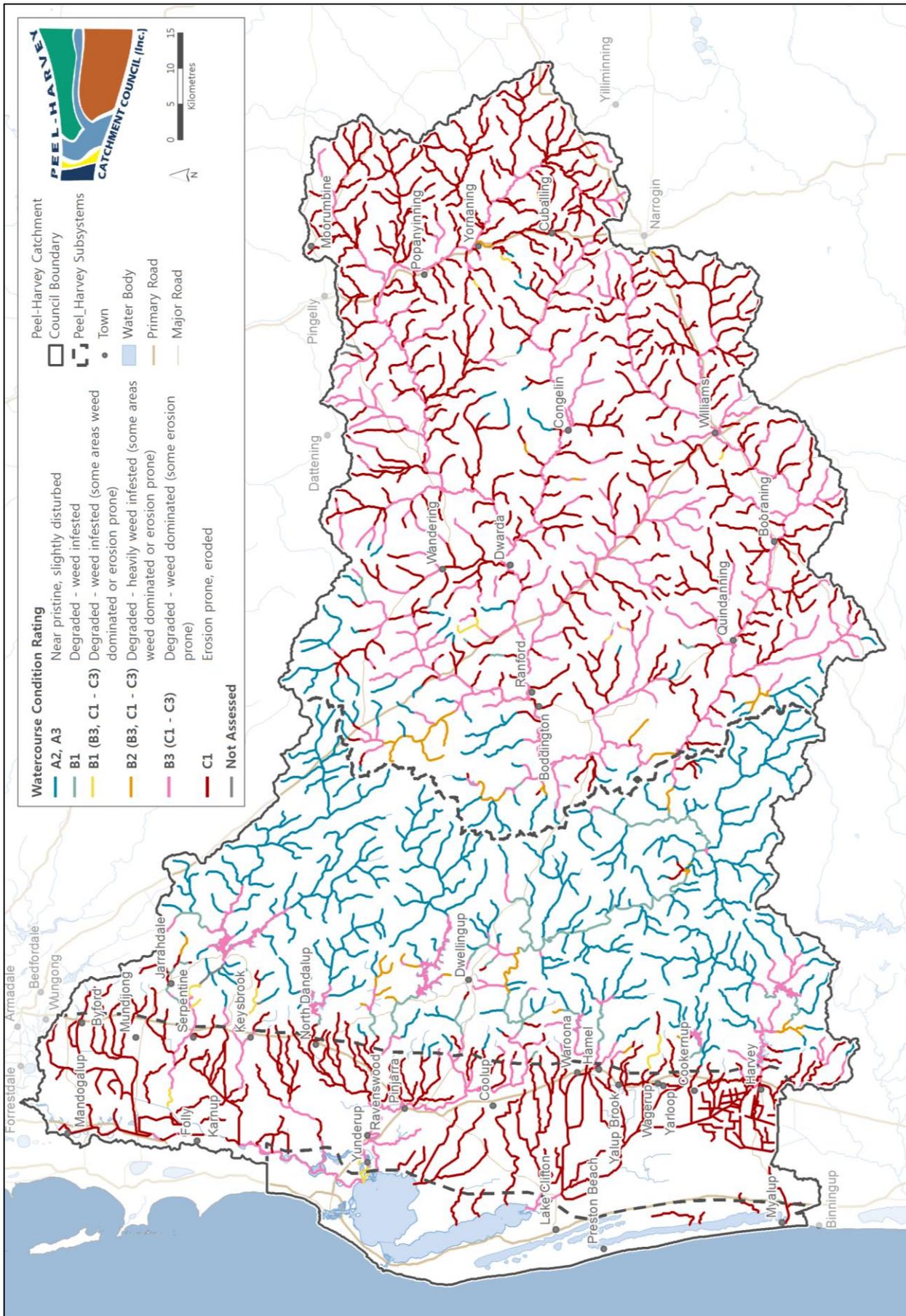


Figure 1: Condition of waterways in the Peel-Harvey Catchment (2001 assessment)

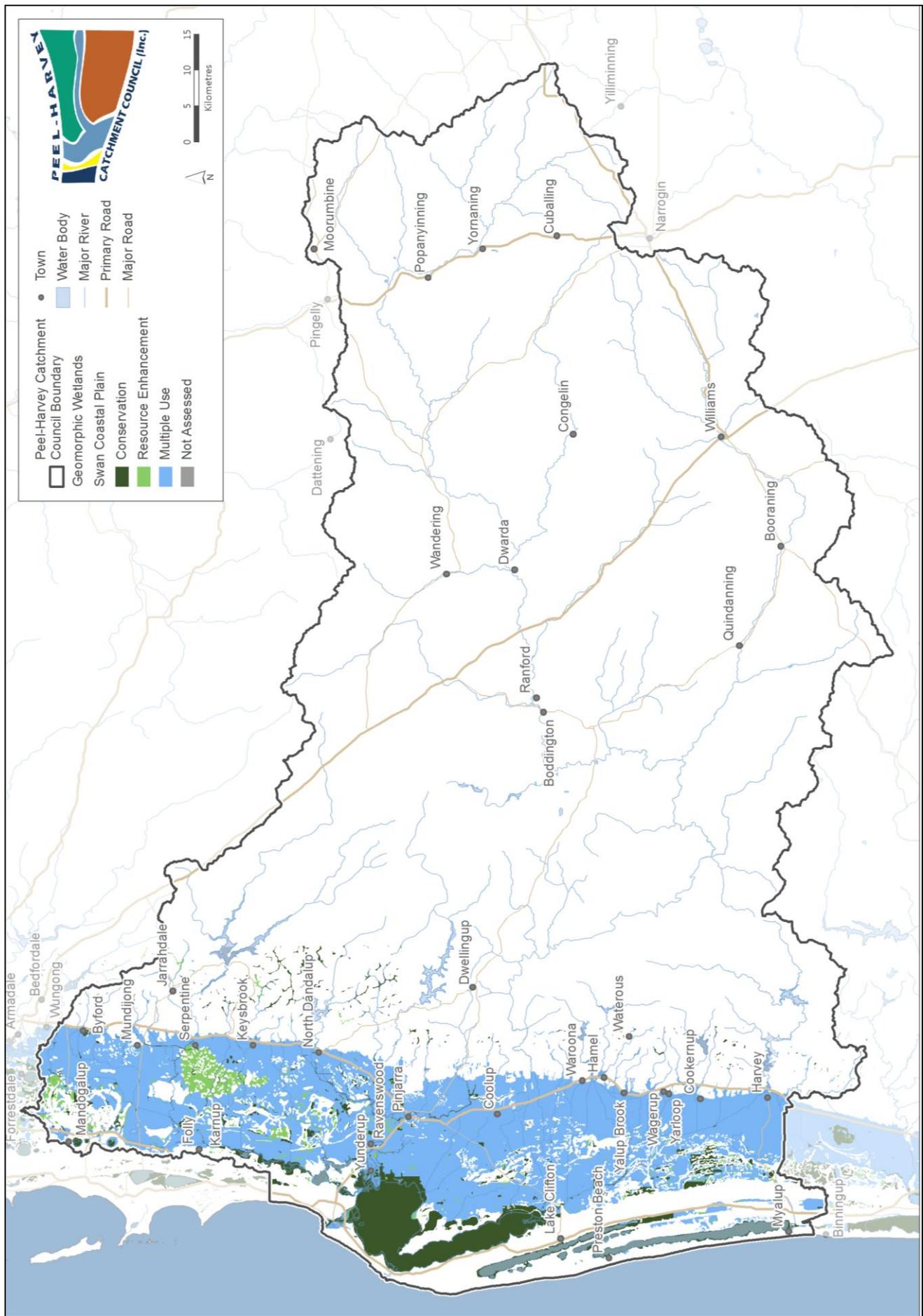


Figure 2: Wetland management categories, Swan Coastal Plain

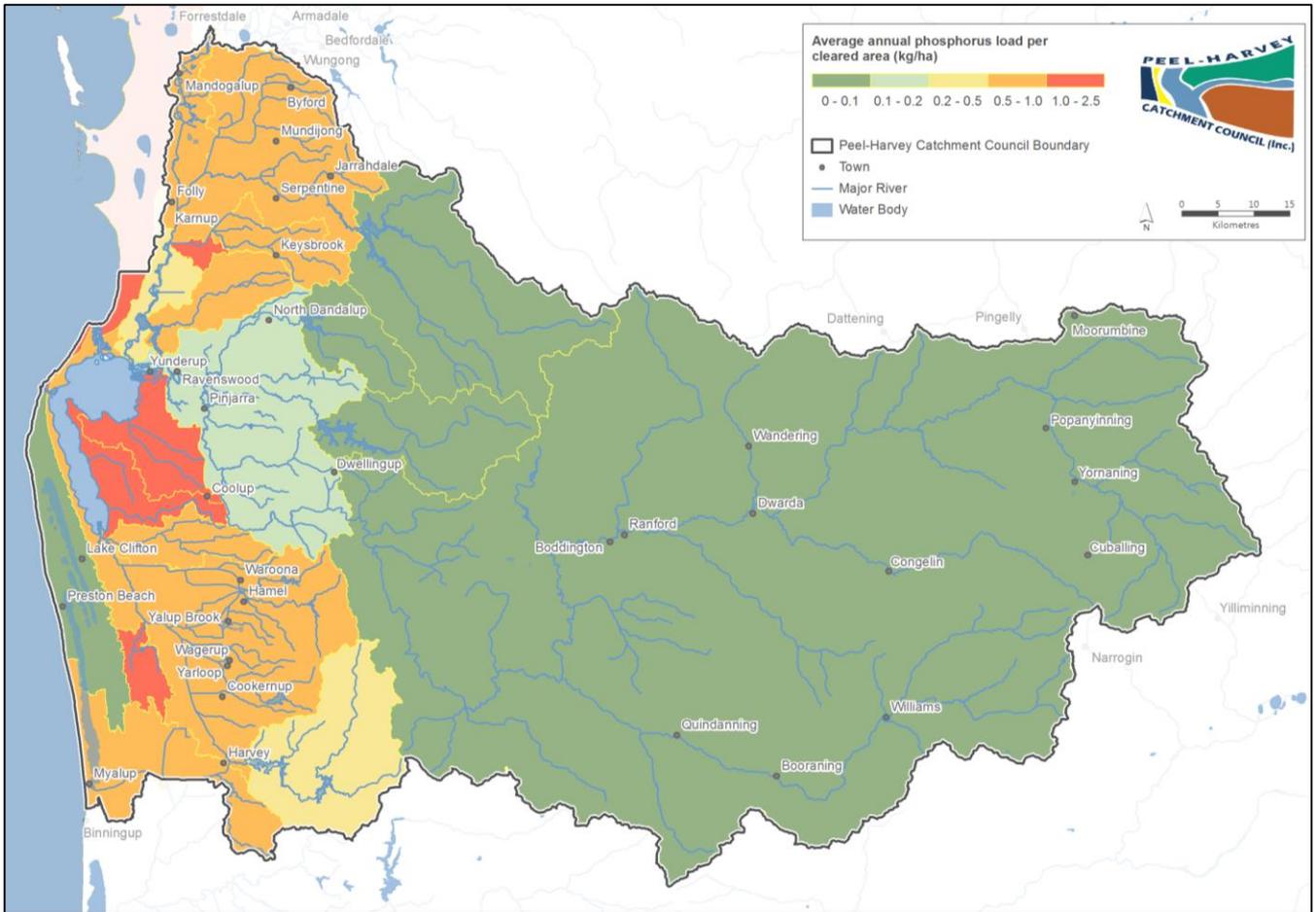


Figure 3: Average annual phosphorus loads by subcatchment

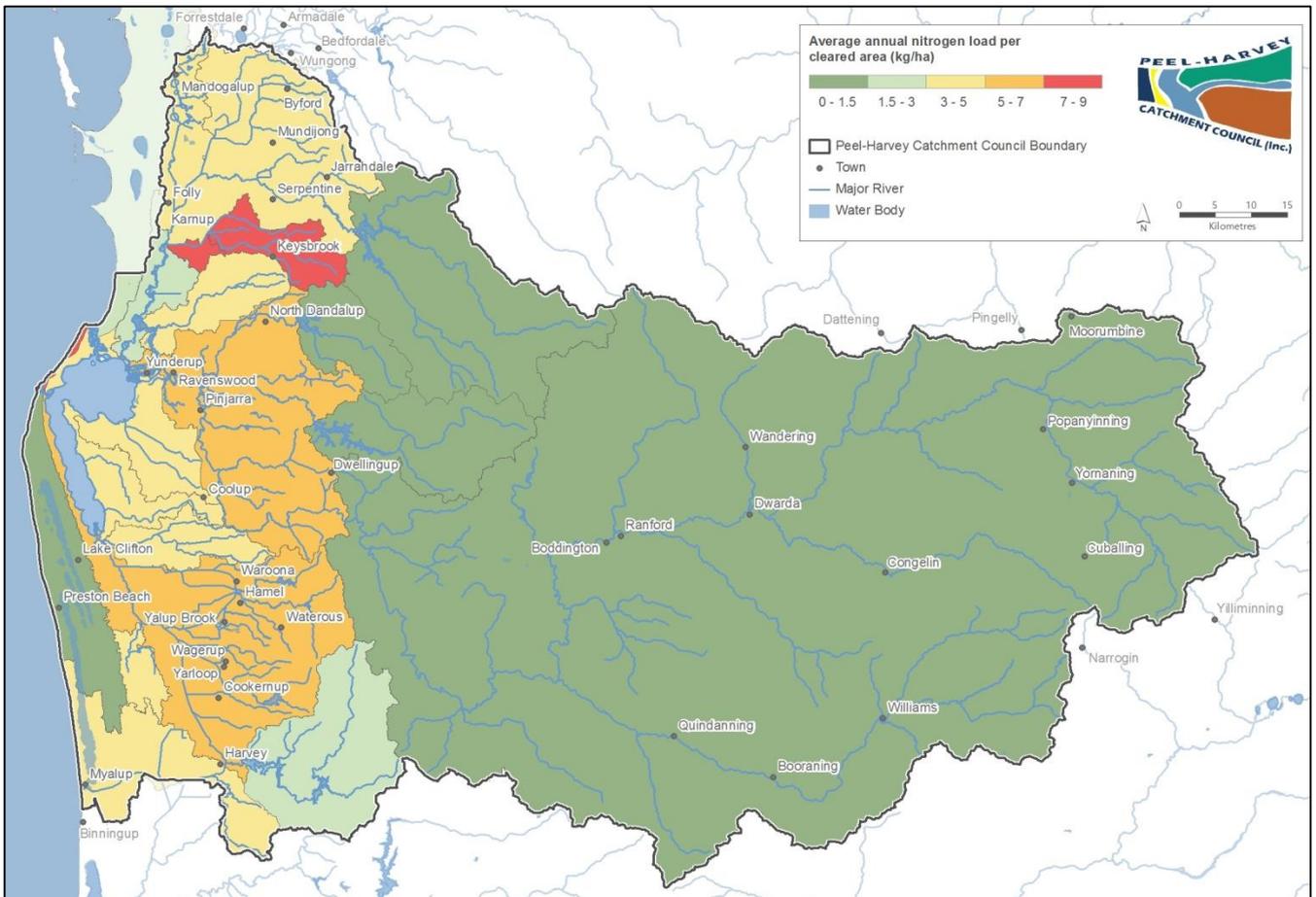


Figure 4: Average annual nitrogen load per subcatchment

# Total phosphorus (TP)

## Legend

### 2005-2009 TP trend

-  Emerging increase
-  Decreasing trend
-  Emerging decrease

### 2009 TP classification

-  Low
-  Moderate
-  High
-  Very high

N



0 2 4 8 12 16 20 km

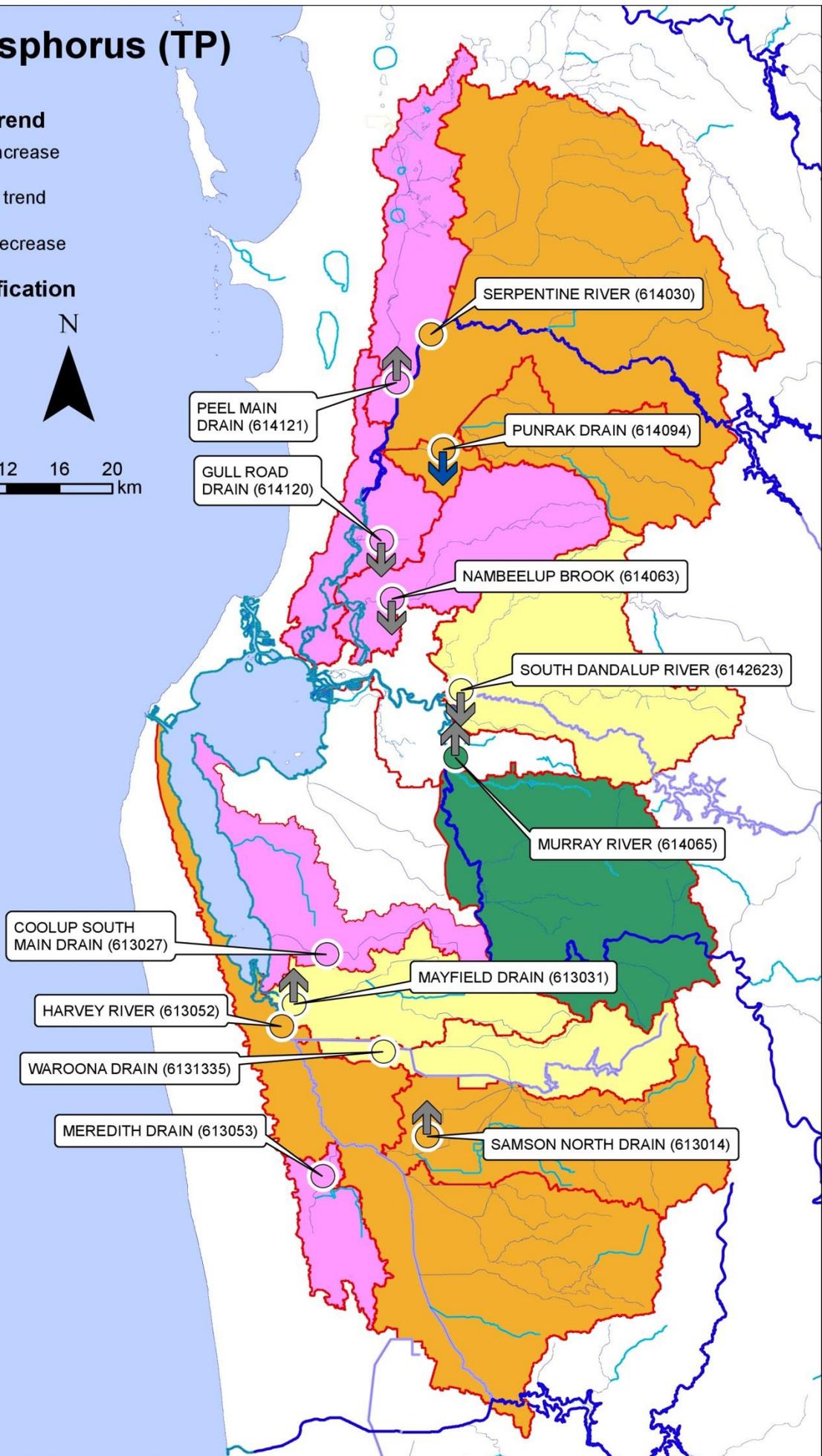


Figure 5: Phosphorus export loads and trends (DoW, 2014)

# Total nitrogen (TN)

## Legend

### 2005-2009 TN trend

↑ Emerging increase

↑ Increasing trend

### 2009 TN classification

● Low

● Moderate

● High

● Very high

N

0 2 4 8 12 16 20 km

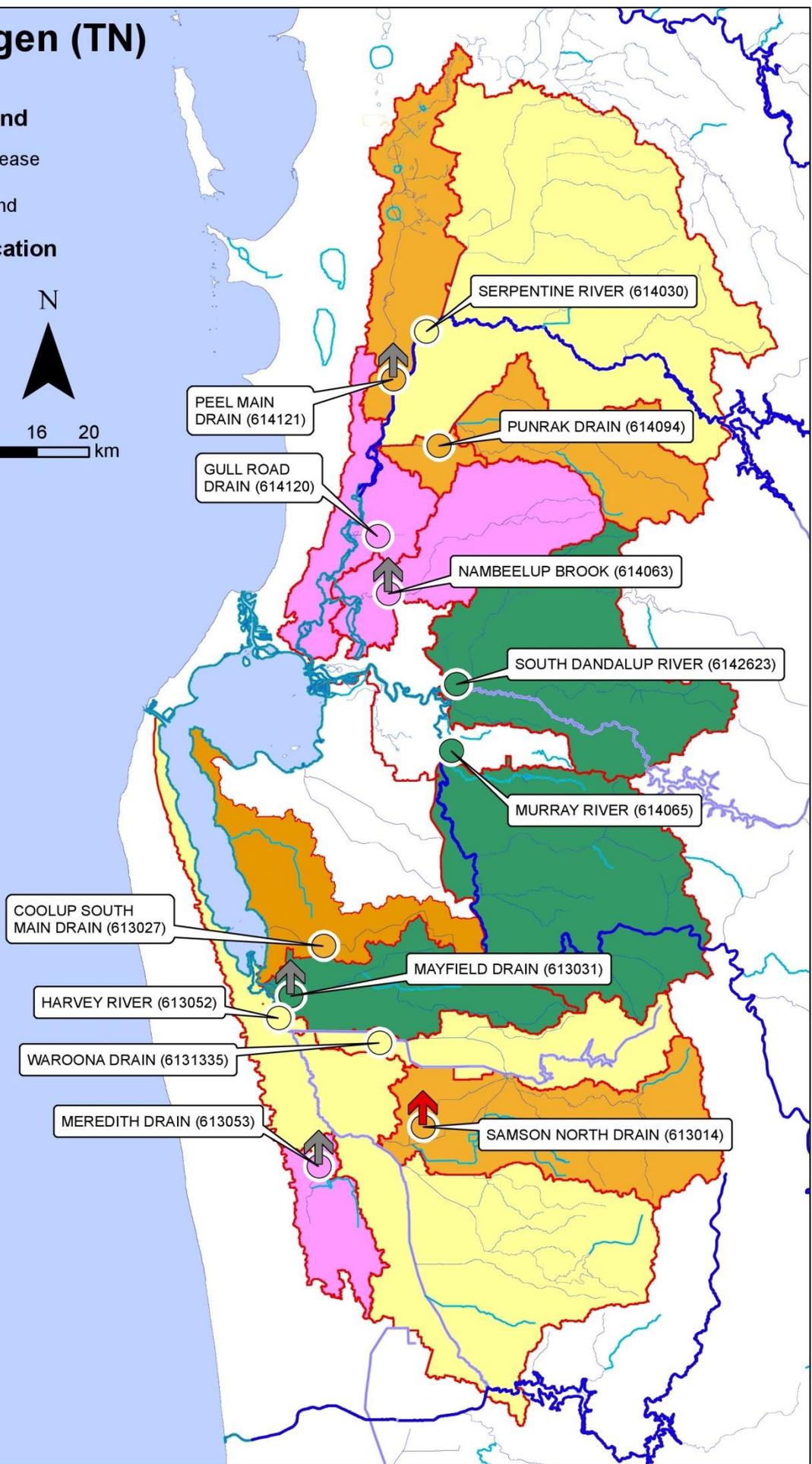


Figure 6: Total nitrogen load and trend (DoW, 2014)

