Meredith Drain

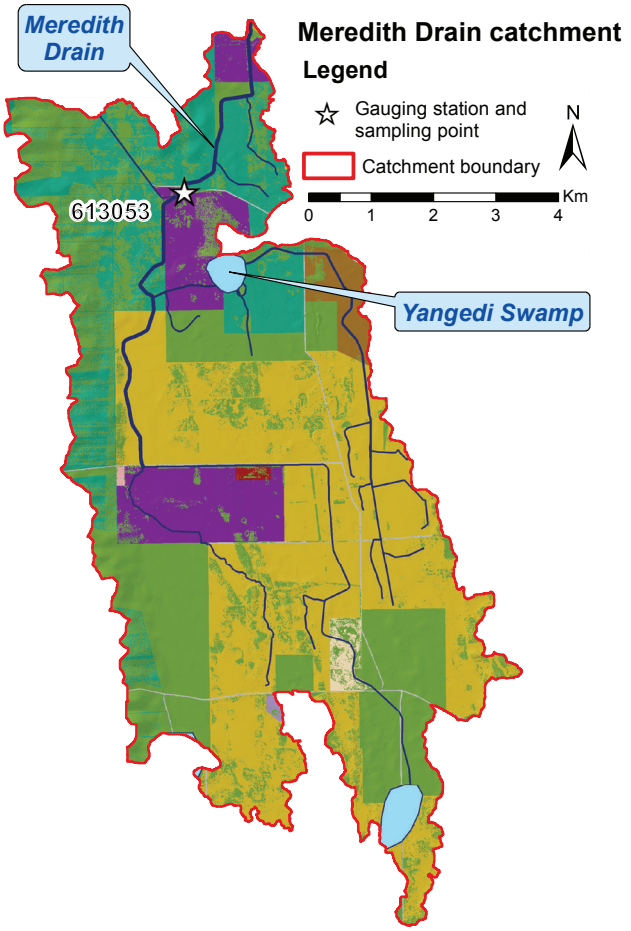
The Meredith Drain catchment is bordered by the Harvey catchment to the east and the Myalup State Forest to the west. It discharges to the Harvey River downstream of Samson South Drain.

The catchment's monitoring site is located at the Johnston Road flow gauging station (613053). The drain has been monitored since 1982 and has a history of very high total nitrogen and phosphorus concentrations. Before 1987 Meredith Drain flowed year-round. Since then it has stopped flowing from around January to June, except for 1993 and 1999 when it flowed year-round. No flow monitoring has been done since July 2010.

The Meredith Drain catchment lies on subdued dune-swale terrain, containing leached sands. Half of the catchment is subject to seasonal inundation and most of the catchment has a high or very high risk of phosphorus leaching to waterways (90%).

Two thirds of the catchment has been cleared, mostly for agriculture such as stock grazing and plantations. There is also a piggery present.

Land use classification (2006)	Area	
	(km²)	(%)
Cattle for beef (predominantly)	20	36
Cattle for dairy	1.1	2.1
Conservation and natural	20	36
Horticulture	0.07	0.13
Industry, manufacturing and transport	0.49	0.88
Intensive animal use	0.11	0.19
Lifestyle block	0.37	0.66
Mixed grazing	5.2	9.2
Plantation	8.5	15
Viticulture	0.04	0.07
Total	**56**	**100**



Meredith Drain, Johnston Road – December 2006

Nutrient summary: median concentrations, loads and status classification at 613053

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Annual flow (GL)	2.1	0.90	3.5	6.2	0.75	2.2	3.5	1.4	-	-	-	-	-	-
TN median (mg/L)	2.3	2.3	2.0	2.6	1.9	2.7	2.7	2.4	1.7	2.7	2.5	2.6	2.8	2.0
TP median (mg/L)	0.32	0.34	0.42	0.70	0.25	0.50	0.44	0.51	0.13	0.42	0.33	0.41	0.38	0.12
TN load (t/year)	5.8	2.3	10	18	2.1	6.2	10	3.9	-	-	-	-	-	-
TP load (t/year)	1.2	0.58	2.4	4.4	0.37	1.4	2.3	0.81	-	-	-	-	-	-

Status classification — Low — Moderate — High — Very high

Status reported for three-year period end (i.e. 2012–14 reported in 2014)
TN = total nitrogen TP = total phosphorus

* Best estimate using available data
(- not applicable)

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