



# Mayfield Drain

Mayfield Drain catchment drains west from the Darling Plateau, discharging into the southern end of the Harvey Estuary. The catchment has 237 km of natural and modified waterways of which approximately half are gazetted under the Waroona Drainage District and managed by the Water Corporation.

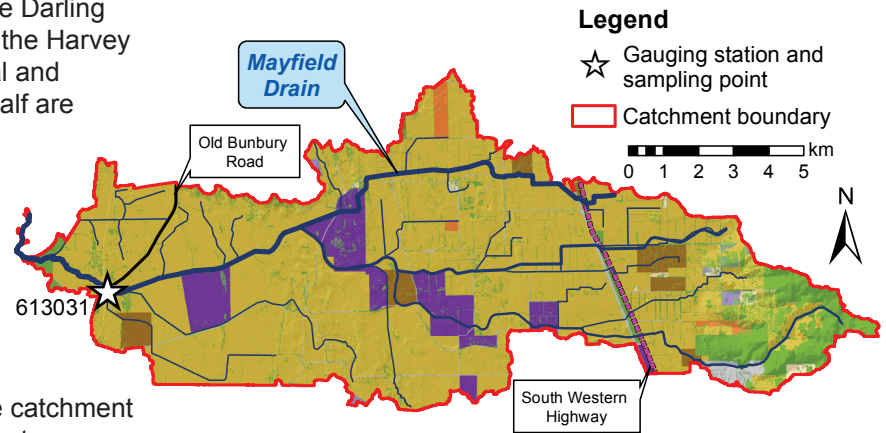
The catchment's soils are mostly poorly drained flats and sandy soils containing either ironstone gravel or calcareous mounds. It has the smallest area of leached sands (5.3 km<sup>2</sup>, 4.5%) of all the Peel-Harvey catchments. Nearly a third of the catchment has a high to very high risk of phosphorus loss to waterways (30%).



Mayfield Drain - July 2010

Water quality was monitored at the gauging station close to the Old Bunbury Road (613031), near the outlet of the catchment.

Flow data was also recorded at the gauging station between 7 March 1991 and 5 March 2002, then from 11 May 2005 to 31 October 2007 and from 1 June 2010. Mayfield Drain appeared to flow year-round, as this was the case during the periods monitored which included the low rainfall years of 2001, 2006 and 2010.



Most of the catchment is used for agriculture (e.g. cattle and mixed grazing) with the largest percentage area dedicated to a single land use ('cattle for beef') of all the Peel-Harvey catchments. The Mayfield Drain catchment also had the smallest area and percentage of remnant vegetation of the Peel-Harvey catchments.

Land use classification (2006)	Area	
	(km <sup>2</sup> )	(%)
Animal keeping – non-farming (horses)	1.0	0.80
Cattle for beef (predominantly)	87	73
Cattle for dairy	3.7	3.1
Conservation and natural	16	13
Cropping	0.03	0.02
Horticulture	0.44	0.37
Industry, manufacturing and transport	2.8	2.3
Lifestyle block	0.58	0.48
Mixed grazing	8.3	7.0
Residential	<0.01	<0.01
<b>Total</b>	<b>119</b>	<b>100</b>

**In 2015 Mayfield Drain had the second-lowest median TN and TP concentrations of the 13 sites sampled in the Peel-Harvey catchment.**

## Nutrient summary: median concentrations, loads and status classification at 613031

Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Annual flow (GL)	-	-	26*	3.4	25*	-	-	3.9*	13	11	26	15	1.9	12
TN median (mg/L)	0.47	0.37	0.62	0.52	1.30	0.80	0.49	0.41	1.2	0.62	1.3	0.73	0.41	1.1
TP median (mg/L)	0.03	0.03	0.05	0.06	0.17	0.05	0.03	0.02	0.05	0.03	0.13	0.03	0.02	0.08
TN load (t/year)	-	-	45*	5.5	48*	-	-	5.8*	23	20	43	28	2.4	23
TP load (t/year)	-	-	6.4*	0.74	6.6*	-	-	0.68*	3.1	2.5	6.3	3.5	0.25	2.8

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)