



FAMILY HYDROPSYCHIDAE

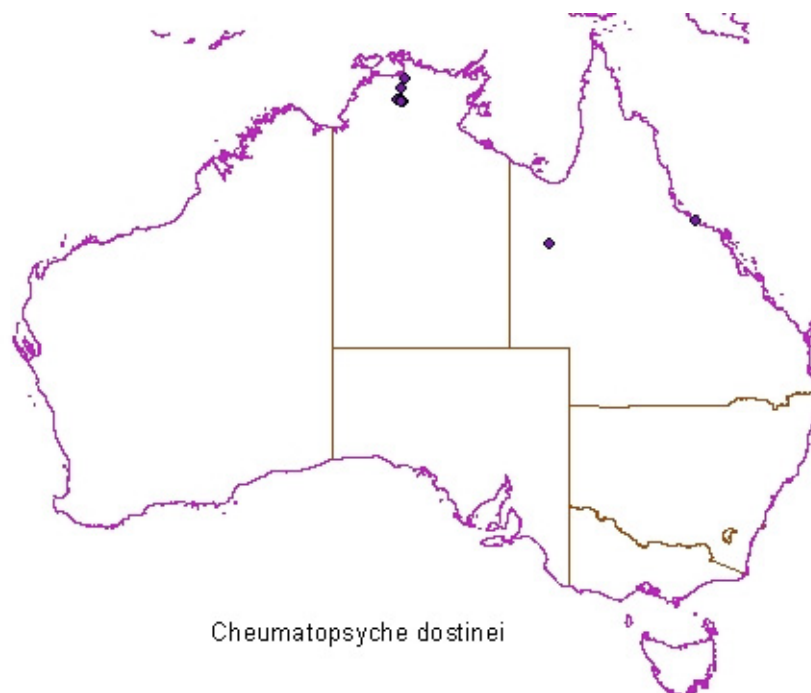
Habitat profile for *Cheumatopsyche dostinei* Dean

Cheumatopsyche dostinei was only recorded from 9 Northern Territory and Queensland localities in this study. This species is a very widespread northern species, with adults previously recorded from north east Queensland, the Northern Territory and northern Western Australia (Dean 2001).

In this study only two locations had associated environmental data and so the following habitat characteristics should be considered with caution. *C. dostinei* was recorded in riffle habitat samples from streams between 3-220 m altitude, 25-709 km from the source, with predominantly bedrock, boulders and cobble substrate with low detritus cover. The streams were between 10-15 m wide and shallow, 0.1 m deep with low alkalinity between 75-160 mg/L and moderate conductivity ranging from 193-316 $\mu\text{S}/\text{cm}$.

The following generalities can be made about the other parameters listed in the Table: recorded water temperature of 26.7 °C, slightly alkaline pH in the range 7.7-8.6 and very low to medium turbidity (0.5-110 NTU).

Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Cheumatopsyche dostinei* in Australia.



Typical habitat of *Cheumatopsyche dostinei*



Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *C. dostinei* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	111.5	111.5	3-220	2
Distance from source (km)	367	367	25-709	2
Stream width (m)	12.5	12.5	10-15	2
Stream depth (m)	0.1	0.1	0.1	2
Water temperature (°C)	26.65	26.65	26.6-26.7	2
Conductivity (µS/cm)	254.5	254.5	193-316	2
pH	8.2	8.2	7.7-8.6	2
Alkalinity (mg/L)	117.5	117.5	75-160	2
Turbidity (NTU)	55.2	55.2	0.5-110	2
Total N (mg/L)	0.88	0.88	0.55-1.2	2
NO3-N (mg/L)				
Total P (mg/L)	0.04	0.04	0.014-0.06	2

Dean JC (2001) New species of Hydropsychidae (Insecta : Trichoptera) from Northern Australia. *Memoirs of the Museum of Victoria* **58**, 231-246.