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A stocktake of the  
number and size range  
of flora and fauna  
species of Magela  
Creek, Alligator Rivers  
Region, NT

C Camilleri

July 2004





# **A stocktake of the number and size range of flora and fauna species of Magela Creek, Alligator Rivers Region, NT**

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# **A stocktake of the number and size range of flora and fauna species of Magela Creek, Alligator Rivers Region, NT**

**Caroline Camilleri**

## **1 Introduction**

The Magela Creek and associated wetlands is located in the Alligator Rivers Region, which includes World Heritage Area Kakadu, approximately 200 km east of Darwin Northern Territory. Research, monitoring and management strategies in the most part have been directed towards the effects of uranium mining and milling at the Ranger minesite, on animals, plants and people living downstream of the mine. Protection of the rich diversity of flora and fauna of Magela Creek, in World Heritage Area Kakadu is a high priority.

The most susceptible area for possible impact from the release of waste water from mining operations, is the wetland ecosystem downstream of the minesite. Magela Creek has been intensively studied for almost 30 years, and represents a unique long-term time-series of freshwater aquatic biological and ecological data.

The purpose of a stocktake of aquatic species and their sizes in the Magela Creek system is to provide life-history data for ecological risk assessment at population and community levels. Risk assessments for ecosystems are generally of two kinds: (1) for structured single populations, and (2) food chains. In both, bioassay results can be linked to population and/or community dynamics using life history knowledge. Structured population models can incorporate: specific dose-response survival and/or fecundity rates for each age/stage class; account for density dependence of selected ages/stages; and, ultimately, summarise population-level responses to toxicants through estimates of population growth rate or extinction risk. Food chain or web models may encompass the effects of toxicant kinetics or bioaccumulation factors incorporating: select dose-response and predator-prey functions; and simulating ecosystem dynamics and estimating the risk of adverse events. Population-level ecotoxicological risk assessments for environmental contaminants use data from standard laboratory bioassays. These data are incorporated into the parameters of a population model, then a risk assessment is performed analysing population-level differences between control and impacted samples. Bioassays on individuals are used to assess the impact of toxins on natural systems, and are usually expressed in terms of individual-level assessment endpoints such as growth, survivorship and fecundity. Stage-structured single-population models and food chain models are therefore critical in predicting population-level effects of toxicants on individuals.

Typically however, there are large gaps in knowledge on the demography of species within ecological communities for any site in the world. Fortunately, life history theory is central to demography and can be used to predict the dynamics of populations or individual-level responses to toxicants. A large number of empirically based relationships describe biological rates as simple functions of body size, such as maximum rate of population increase, animal density, physiology, morphology and sensitivity to toxicants. In the absence of demographic or physiological information, body size relations provide the most extensive and powerful

generalisations, and can be used to fill gaps in knowledge. Additionally, this report gathers together for the first time, a comprehensive list identifying to species level all available size class information on the aquatic organisms living in or closely linked and associated with Magela Creek.

## **2 Description and identification of major groups of aquatic organisms of Magela Creek**

### **2.1 Introduction**

The organisms have been separated into major groups based on general biological characteristics, and description and identification of groups in the literature. An Excel spreadsheet has been collated with 10 worksheets containing each grouping or species. Species are listed in alphabetical order, giving genus, species and common names where available. Key references are provided in the following descriptions. With the continuing development of SSD Explorer, this data set will be entered and available according to information in the users guide to SSD Explorer.

### **2.2 Algae (including Cyanobacteria)**

Broady (1984) investigated the diversity and abundance of cyanobacteria in aquatic and non-aquatic habitats in billabongs and the floodplain of Magela Creek. Cyanobacteria are reported to be common in areas which remain inundated throughout the year, but also are prevalent in areas that become highly desiccated during the Dry season, such as floodplains. A further 15 species are identified and measured from this study in addition to the species described by Ling and Tyler (1986).

Ling and Tyler (1986) identify and describe 479 species of freshwater algae in Magela Creek. The composition of algae represents high floristic diversity common to the tropics. There is a strong affinity with the flora of South-East Asia. Measurements are given by Ling and Tyler (1986) and are recorded as length, width, and diameter where available.

### **2.3 Diatoms**

Thomas (1983) describes 146 species of diatoms of the Magela Creek system. Size data for this study were obtained by measuring all of the available identifying photographs, using a mm ruler.

### **2.4 Vegetation**

The vegetation of Magela Creek was first described as far back as Story (1969). The plant ecosystem includes approximately four general habitats (Finlayson et al 1989); seasonally inundated plain; seasonally inundated fringe zone; billabong; and permanent swamp. Of the 219 species identified associated with the Magela Creek ecosystem, 82 species are classified as aquatic and denoted by the symbol A in the workbook for algae. The remaining 137 species have been classified as terrestrial according to Denny (1985) ‘...pteridophytes, charophytes and spermatophytes with vegetative parts that are permanently or seasonally submerged in or emergent from, or float on the water surface’.

## **2.5 Microinvertebrates**

Microcrustaceans are an important component of the aquatic ecosystem in Magela Creek. Trophic interactions include feeding on detritus, bacteria and phytoplankton, while also forming a significant portion of the diet of numerous fish species including larval and juvenile life stages (Bishop 1980, 2001). Sixty one species of microinvertebrates are identified from the Magela Creek catchment lowlands and floodplains (Julli 1986). The majority of species were found among aquatic macrophyte weedbeds. Measurements of body size were taken using a mm ruler from drawings where available.

## **2.6 Macroinvertebrates**

At the time of preparing this report, few measurements of macroinvertebrates were available for Magela Creek species. The three groups with available body size data for some genera are Odonata (Hawking 1993), Ephemeroptera (Suter 1992) and Macrobrachium (Short 1998). Further work is required on the macroinvertebrates to bring the voucher collection up to date, and actually measure species where no information is available at present.

## **2.7 Fish**

Thirty-four species of fish are known to occur in Magela Creek, including endemic species (*Pingalla midgleyi* Midgely's grunter and *Craterocephalus marianae* Mariana's hardyhead) (Gardner et al 2002). The structure of the fish communities is described in Bishop et al (1986, 1990), and the feeding, breeding and migration habits in Bishop et al (1986, 1990, 2001). Fish species are listed in the spreadsheet with minimum and maximum length measurements given where available for samples collected in Magela Creek.

## **2.8 Amphibians**

Twenty four species of frogs are found in the Magela Creek floodplain system (Gardner et al 2002). Several species are endemic to upland rocky escarpment habitats in the Top End and Kimberley regions, and are listed separately in the amphibian worksheet. The other species inhabit wetland and floodplain areas across northern Australia. Male and female body sizes are given where available, as many species display sexual dimorphism (Barker et al 1995).

## **2.9 Reptiles**

The reptile fauna of Magela Creek is reported as one of the most diverse in Australia (Gardner et al 2002). Measurements are given as standard snout-vent lengths where available. The large reptiles present in aquatic habitats are noted in the spreadsheet by an asterisk.

## **2.10 Birds**

The Magela Creek ecosystem supports a diverse range of waterbird species. Permanent waterbodies such as billabongs and swamps provide important Dry season habitat for waterbirds. Fifty one species of common and abundant waterbirds are identified with measurements of body size given where available.

## **2.11 Mammals**

Thirty six species of mammals are identified from the Magela Creek system. Measurements are given of minimum and maximum body lengths for males and females where available (Gardner et al 2002; Strahan 1983).

### 3 Summary

The following table summarises the major species groups, total number of species within each group, and total number of aquatic species. Aquatic species are defined as living in or on water, or having part or whole of lifecycle taking place in water.

**Table 1** Summary of the groups, total number of species and number of aquatic species in the Magela Creek system

Major groups of species	Total number of species	Total number of aquatic species
Algae (including Cyanobacteria)	494	494
Diatoms	146	146
Vegetation	219	84
Microinvertebrates	139	139
Macroinvertebrates	72	72
Fish	34	34
Amphibians	25	25
Reptiles	78	13
Birds	51	51
Mammals	44	1
Total	1302	1059

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## Appendix 1 Magela Creek algae

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
Chaetophoraceae	<i>Stigeoclonium</i>	<i>flagelliferum</i>	35	43	10	12	31	54
Chlorococcaceae	<i>Tetraedon</i>	<i>gracile</i>						
	<i>Tetraedon</i>	<i>hastatum</i>					36	40
	<i>Tetraedon</i>	<i>limneticum</i>					32	40
	<i>Tetraedon</i>	<i>regulare</i>					20	50
	<i>Tetraedon</i>	<i>victoriae</i>	65		23			
	<i>Tetraedon</i>	sp.					70	
Chaetosphaeridiaceae	<i>Chaetosphaeridium</i>	<i>globosum</i>	14	17	11	14		
Dictyosphaeriaceae	<i>Botryococcus</i>	<i>braunii</i>	6	14	3	8		
	<i>Dictyosphaerium</i>	<i>pulchellum</i>						
	<i>Dictyosphaerium</i>	<i>tetrachotomum</i>	7	8	5	6		
	<i>Dimorphococcus</i>	<i>lunatus</i>	7	15	5	7		
	<i>Pediastrum</i>	<i>araneosum</i>					15	
	<i>Pediastrum</i>	<i>duplex</i>					10	
	<i>Ankistrodesmus</i>	<i>falcatus</i>	20	25	1	2		
	<i>Chotatella</i>	<i>subsalsa</i>			8		14	
Oocystaceae	<i>Kirchneriella</i>	<i>lunaris</i>	9	14	4	6		
	<i>Kirchneriella</i>	<i>obesa</i>	6	10	3	6		
	<i>Nephrocytum</i>	<i>lunatum</i>	14	20	4	7		
	<i>Oocystis</i>	<i>borgei</i>	10	16	7	11		
	<i>Selenastrum</i>	<i>bibraianum</i>	20	24	5	7		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Selenastrum</i>	<i>gracile</i>	3	4	7	20	2.5	3
	<i>Selenastrum</i>	<i>westii</i>						
	<i>Treubaria</i>	<i>trifappendiculata</i>	9	10	48	51	7	9
Radiococcaceae	<i>Coenochloris</i>	<i>pyrenoidosa</i>						
Scenedesmaceae	<i>Actinastrum</i>	<i>gracillimum</i>	15				3	
	<i>Actinastrum</i>	<i>hantzschii</i>	23				3	
	<i>Coelastrum</i>	<i>intermedium</i>					8	12
	<i>Crucigenia</i>	<i>quadrata</i>					4	
	<i>Crucigenia</i>	sp.	5	7	3		4	
	<i>Scenedesmus</i>	<i>bifuga</i>	10	11			6	
	<i>Scenedesmus</i>	<i>brasiliensis</i>	23	27	7		8	
	<i>Scenedesmus</i>	<i>perforatus</i>	14	21	4		7	
	<i>Scenedesmus</i>	<i>quadricauda</i>	20	23			7	
	<i>Scenedesmus</i>	sp.	14	16	8		9	
	<i>Tetraialtis</i>	<i>lagerheimii</i>	9	10	3		4	
Bulbochaetaceae		sp.2		30				
Oedogoniaceae	<i>Oedogonium</i>	<i>pusillum</i>	22	30			4	
	<i>Oedogonium</i>	<i>undulatum</i>		65	14		16	
Gloeocystaceae	<i>Gloeocystis</i>	<i>gigas</i>					11	18
Tetrasporaceae	<i>Schizochlamys</i>	<i>gelatinosa</i>					11	12
	<i>Schizochlamys</i>	sp.					17	19
Ulotrichaceae	<i>Geminella</i>	<i>ordinata</i>	4.5	5.5	3		4	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Gemmella</i>	sp.	4	6	10	12	7	8
	<i>Radiofilium</i>	<i>irregularare</i>						
Pyramimonaceae	<i>Pyramimonas</i>	sp.		18			8	
Volvocaceae	<i>Chlamydomonas</i>	<i>bicocca</i>	12	19	17	20		
	<i>Eudorina</i>	<i>elegans</i>					9	15
	<i>Pandorina</i>	<i>morum</i>		7			5	
	<i>Pandorina</i>	sp.					8	10
	<i>Volvox</i>	<i>aureus</i>					5	7
Desmidaceae	<i>Actinotaenium</i>	<i>capax</i>	69		28		46	
	<i>Actinotaenium</i>	<i>cucurbita</i>						17
	<i>Actinotaenium</i>	<i>cucurbitinum</i>		64				25
	<i>Actinotaenium</i>	<i>diplosporum</i>		63				27
	<i>Actinotaenium</i>	<i>elongatum</i>	169	181	45			54
	<i>Arthrodessmus</i>	<i>octocornis</i>	17	42	15			38
	<i>Bambusina</i>	<i>brebissonii</i>	25	29	15			16
	<i>Bambusina</i>	<i>sphaerospora</i>						
	<i>Closterium</i>	<i>acerosum</i>	342	410	35			36
	<i>Closterium</i>	<i>biclavatum</i>		296			6	
	<i>Closterium</i>	<i>cynthia</i>		58			9	
	<i>Closterium</i>	<i>dianae</i>		220			25	
	<i>Closterium</i>	<i>dianae var. arcuatum</i>		210			20	
	<i>Closterium</i>	<i>dianae var. brevius</i>		148			22	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Closterium</i>	<i>incurvum</i>	47	47	8	8		
	<i>Closterium</i>	<i>infractum</i>						
	<i>Closterium</i>	<i>kuetzingii</i>	515				18	
	<i>Closterium</i>	<i>leibleinii</i>	76				14	
	<i>Closterium</i>	<i>libellula</i> var. <i>intermedium</i>	178				26	
	<i>Closterium</i>	<i>libellula</i> var. <i>interruptum</i>	100	162	19	23		
	<i>Closterium</i>	<i>lunula</i>	542	583	106		113	
	<i>Closterium</i>	<i>mnematodes</i>	116	237	14		35	
	<i>Closterium</i>	<i>parvulum</i>	80	125	9		15	
	<i>Closterium</i>	<i>parvulum</i> var. <i>tortum</i>	92				5	
	<i>Closterium</i>	<i>porrectum</i> var. <i>angustatum</i>	120				20	
	<i>Closterium</i>	<i>pronum</i>	98	287	3		5	
	<i>Closterium</i>	<i>raffsii</i> var. <i>hybridum</i>	520	548	28		32	
	<i>Closterium</i>	<i>rectimarginatum</i>	168				20	
	<i>Closterium</i>	<i>semicirculare</i>	171				27	
	<i>Closterium</i>	<i>striolatum</i>	239	300	25		27	
	<i>Closterium</i>	<i>turgidum</i> forma	476	648	39		41	
	<i>Closterium</i>	sp. 1	102	110	26		27	
	<i>Closterium</i>	sp. 2	102	123	8		9	
	<i>Cosmarium</i>	<i>amoenum</i>	47	59	29		32	
	<i>Cosmarium</i>	<i>amoenum</i> var. <i>mediolaeve</i>	43				26	
	<i>Cosmarium</i>	<i>askenasyi</i>	54	70	79		187	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Cosmarium</i>	<i>askenasyi</i> forma	131	76	78			
	<i>Cosmarium</i>	<i>binum</i>	64			45		
	<i>Cosmarium</i>	<i>biloculatum</i>	19.5			17		
	<i>Cosmarium</i>	<i>ceylanicum</i>	31			25		
	<i>Cosmarium</i>	<i>connatum</i>	74	59		62		
	<i>Cosmarium</i>	<i>contractiforme</i>	47	31		33		
	<i>Cosmarium</i>	<i>contractum</i>	38	25		27		
	<i>Cosmarium</i>	<i>contractum</i> var. <i>minutum</i>	13	20		10	19	
	<i>Cosmarium</i>	<i>contractum</i> var. <i>pachydermum</i>		26			20	
	<i>Cosmarium</i>	<i>cucumis</i>	142	80	83			
	<i>Cosmarium</i>	<i>denticulatum</i>		95		130		
	<i>Cosmarium</i>	<i>depressum</i>	23	25		22	25	
	<i>Cosmarium</i>	<i>exasperatum</i>		35		37		
	<i>Cosmarium</i>	<i>excavatum</i>	37			21		
	<i>Cosmarium</i>	<i>favum</i>	70			68		
	<i>Cosmarium</i>	<i>geminatum</i>		25	27		29	
	<i>Cosmarium</i>	<i>glyptodermum</i>		90			54	
	<i>Cosmarium</i>	<i>granatum</i>		27			20	
	<i>Cosmarium</i>	<i>javanicum</i>	150	154	87		95	
	<i>Cosmarium</i>	<i>lundellii</i> var. <i>ellipticum</i>		64			56	
	<i>Cosmarium</i>	<i>moniliforme</i>	33	35			17	
	<i>Cosmarium</i>	<i>moniliforme</i> var. <i>ellipticum</i>	44	47	24		30	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Cosmarium</i>	<i>moniliforme</i> var. <i>indentatum</i>	39				21	
	<i>Cosmarium</i>	<i>moniliforme</i> var. <i>panduriforme</i>	20	13	9	14		
	<i>Cosmarium</i>	<i>norimbergense</i>	10	11.5	9	11		
	<i>Cosmarium</i>	<i>nudum</i>	47	51	50	52		
	<i>Cosmarium</i>	<i>obsoletum</i>		58		54		
	<i>Cosmarium</i>	<i>obsoletum</i> forma		71		62		
	<i>Cosmarium</i>	<i>obsoletum</i> var. <i>sitivense</i>	40	59	48	72		
	<i>Cosmarium</i>	<i>pachydermum</i>		90	64	67		
	<i>Cosmarium</i>	<i>permixtum</i> var. <i>australe</i>	13	16	8	10		
	<i>Cosmarium</i>	<i>pseudophaseolus</i> var. <i>tithophoroides</i>	22	26	16	19		
	<i>Cosmarium</i>	<i>pseudopyramidatum</i>		59		37		
	<i>Cosmarium</i>	<i>pseudoscenedesmus</i>	23	26	33	37		
	<i>Cosmarium</i>	<i>punctatum</i>	28	32	29	30		
	<i>Cosmarium</i>	<i>quadrifarium</i>		49		37		
	<i>Cosmarium</i>	<i>quadrifarium</i> var. <i>gemmaulatum</i>		42		34		
	<i>Cosmarium</i>	<i>retusiforme</i>		27		22		
	<i>Cosmarium</i>	<i>securiforme</i>	138	145	138	150		
	<i>Cosmarium</i>	<i>spinuliferum</i>		35	32	33		
	<i>Cosmarium</i>	<i>subspeciosum</i>		46	31	35		
	<i>Cosmarium</i>	<i>subtumidum</i> var. <i>pachydermum</i>		40	25	33		
	<i>Cosmarium</i>	<i>tijbenongense minus</i>	30			17		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Cosmarium</i>	<i>trilobulatum</i> var. <i>depressum</i>	15	15	11	11		
	<i>Cosmarium</i>	<i>zonatum</i>	48	52	19	21		
	<i>Cosmarium</i>	sp. 1	74	82	33	36		
	<i>Cosmarium</i>	sp. 2	57	65	35	41		
	<i>Cosmarium</i>	sp. 3	26	31	12	14		
	<i>Cosmarium</i>	sp. 4	16	18	21	28		
	<i>Desmidium</i>	<i>aequale</i>	19	24	30	32		
	<i>Desmidium</i>	<i>aptogonium</i>	20	28	27	30		
	<i>Desmidium</i>	<i>aptogonium</i> var. <i>tetragonum</i>	18	20	20	32		
	<i>Desmidium</i>	<i>baileyi</i>	16	20	21	21		
	<i>Desmidium</i>	<i>baileyi</i> fa. <i>Tetragonum</i>	14	14	20	20		
	<i>Desmidium</i>	<i>coarctatum</i>	40	43	40	42		
	<i>Desmidium</i>	<i>suboccidentale</i>	15	15	26	26		
	<i>Desmidium</i>	<i>swartzii</i>	13	40	43	43		
	<i>Desmidium</i>	<i>swartzii</i> forma	18	18	50	50		
	<i>Docidium</i>	<i>baculum</i>	168	168	11	11		
	<i>Docidium</i>	<i>baculum</i> var. <i>inflatum</i>	141	141	15	15		
	<i>Euastrum</i>	<i>ansatum</i>	114	114	32	35		
	<i>Euastrum</i>	<i>ansatum</i> var. <i>triporum</i>	66	84	32	44		
	<i>Euastrum</i>	<i>asperum</i>	96	96	50	52		
	<i>Euastrum</i>	<i>boreanum</i>	75	75	41	41		
	<i>Euastrum</i>	<i>denticulatum</i> var. <i>quadrifarium</i>	23	23	18	18		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Euastrum</i>	<i>denticulatum</i> var. <i>quadfarium</i> fa. <i>incisum</i>	33				23	
	<i>Euastrum</i>	<i>didelta</i>	137				77	
	<i>Euastrum</i>	<i>didelta</i> var. <i>bengalicum</i>	120	126	55		72	
	<i>Euastrum</i>	<i>minus</i>	84	86	42		44	
	<i>Euastrum</i>	<i>divergens</i>		60	56		60	
	<i>Euastrum</i>	<i>divergens</i> var. <i>rhodesiense</i> fa. <i>coronulum</i>	45				47	
	<i>Euastrum</i>	<i>intermedium</i> var. <i>poriferum</i>	66				41	
	<i>Euastrum</i>	<i>intermedium</i> var. <i>speciosum</i>	65	51			53	
	<i>Euastrum</i>	<i>Latipediforme</i>	110				144	
	<i>Euastrum</i>	<i>longicolle</i> var. <i>capitatum</i>	110				38	
	<i>Euastrum</i>	<i>longicolle</i> var. <i>capitatum</i> fa. <i>minus</i>	64	73	27		35	
	<i>Euastrum</i>	<i>moebii</i>	65	90			92	
	<i>Euastrum</i>	<i>moebii</i> var. <i>burmense</i>	103	98			102	
	<i>Euastrum</i>	<i>moebii</i> var. <i>diplocanthulum</i>	105				108	
	<i>Euastrum</i>	<i>moebii</i> var. <i>insolitum</i>	93	102	100		104	
	<i>Euastrum</i>	<i>moebii</i> var. <i>tetrachaetiforme</i>	95	101	85		90	
	<i>Euastrum</i>	<i>moebii</i> var. <i>tetrachaetiforme</i> forma	84	89	84		86	
	<i>Euastrum</i>	<i>obesum</i> var. <i>tetmemoroides</i>	124	131	34		43	
	<i>Euastrum</i>	<i>praemorsum</i>	61				37	
	<i>Euastrum</i>	<i>pulcherimum</i>	42				27	
	<i>Euastrum</i>	<i>pulcherimum</i> var. <i>menggalense</i>	62				37	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Euastrum</i>	<i>sinuosum</i> var. <i>subjennei</i>	61	66	33	38		
	<i>Euastrum</i>	<i>spinulosum</i> var. <i>burmense</i>		65		57		
	<i>Euastrum</i>	<i>validum</i>		25		17		
	<i>Euastrum</i>	sp. 1	83	91	25	33		
	<i>Euastrum</i>	sp. 2		59		30		
	<i>Euastrum</i>	sp. 3		78		41		
	<i>Groenbladia</i>	<i>neglecta</i>	28	32		10		
	<i>Hyalotheca</i>	<i>dissiliens</i> var. <i>hians</i>	15	18	13	14		
	<i>Hyalotheca</i>	<i>mucosa</i> var. <i>minor</i>	13	18		10		
	<i>Hyalotheca</i>	<i>undulata</i>	11	13	8	9		
	<i>Ichthyodontium</i>	<i>sachlanii</i>		162		23		
	<i>Micrasterias</i>	<i>alata</i>	167	310	230	260		
	<i>Micrasterias</i>	<i>alata</i> forma	141	195	180			
	<i>Micrasterias</i>	<i>alata</i> var. <i>parallela</i>	140	185		186		
	<i>Micrasterias</i>	<i>anomala</i> var. <i>bifurcata</i>	252	346	135	238		
	<i>Micrasterias</i>	<i>ceratofera</i>	163	249	88	165		
	<i>Micrasterias</i>	<i>decurrentata</i> var. <i>intermedia</i>		102		107		
	<i>Micrasterias</i>	<i>doveri</i>	404	425	245	258		
	<i>Micrasterias</i>	<i>foliaceae</i>	64	81		79		
	<i>Micrasterias</i>	<i>foliaceae</i> var. <i>ornata</i>	65	88		88		
	<i>Micrasterias</i>	<i>lux</i>	180	195	167	193		
	<i>Micrasterias</i>	<i>lux</i> var. <i>longibrachiatata</i>	300	355	270	335		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Micrasterias</i>	<i>mahabulleshwrensis</i> var. <i>reducta</i>	110	148			117	
	<i>Micrasterias</i>	<i>mahabulleshwrensis</i> var. <i>surculifera</i>	113	152			150	
	<i>Micrasterias</i>	<i>mahabulleshwrensis</i> var. <i>tetradonta</i>	106	137			95	
	<i>Micrasterias</i>	<i>pinnatifida</i>		67	75		76	
	<i>Micrasterias</i>	<i>radians</i>		65			109	
	<i>Micrasterias</i>	<i>radiosa</i> var. <i>evoluta</i>	330	378	293		360	
	<i>Micrasterias</i>	<i>radiosa</i> var. <i>ornata</i> fa. <i>Aculeata</i>		190			184	
	<i>Micrasterias</i>	<i>suboblonga</i> var. <i>australis</i>		46			25	
	<i>Micrasterias</i>	<i>thomasiana</i> var. <i>evoluta</i>		244			195	
	<i>Micrasterias</i>	<i>thomasiana</i> var. <i>notata</i>		272			230	
	<i>Micrasterias</i>	<i>thomasiana</i> var. <i>torneensis</i>		91			158	
	<i>Micrasterias</i>	<i>torreyi</i> var. <i>crameri</i>	262	376	240		334	
	<i>Micrasterias</i>	<i>torreyi</i> var. <i>curvata</i>	365	370	270		275	
	<i>Micrasterias</i>	<i>tropica</i> var. <i>polonica</i>	102	178	94		129	
	<i>Micrasterias</i>	<i>truncata</i>		61			71	
	<i>Micrasterias</i>	<i>zeylanica</i>	40				75	
	<i>Onychonema</i>	<i>laeve</i>	20	22	27		29	
	<i>Onychonema</i>	<i>laeve</i> var. <i>constrictum</i>	19	20	20		23	
	<i>Onychonema</i>	<i>laeve</i> var. <i>latum</i>		19	27		29	
	<i>Onychonema</i>	<i>laeve</i> var. <i>micracanthum</i>		14			18	
	<i>Pennium</i>	<i>cylindrus</i>	24	50	7		9	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Penium</i>	<i>spirostrialatum</i>	192	308				10
	<i>Penium</i>	<i>sp.1</i>		40			12	
	<i>Penium</i>	<i>sp. 2</i>		188			60	
	<i>Phymatocoris</i>	<i>irregularis</i> var. <i>intermedia</i>	30	32	55		60	
	<i>Pleurotaenium</i>	<i>burmense</i>	510	630	41		45	
	<i>Pleurotaenium</i>	<i>burmense</i> var. <i>curtum</i>		294			25	
	<i>Pleurotaenium</i>	<i>coronatum</i>	222				28	
	<i>Pleurotaenium</i>	<i>coroniferum</i> var. <i>multinodosum</i>	384	434	34		37	
	<i>Pleurotaenium</i>	<i>coroniferum</i> var. <i>multinodosum</i> forma	470	506	32		36	
	<i>Pleurotaenium</i>	<i>ehrenbergii</i>	117	149	21		24	
	<i>Pleurotaenium</i>	<i>ehrenbergii</i> var. <i>crenulatum</i>		270			34	
	<i>Pleurotaenium</i>	<i>ehrenbergii</i> var. <i>elongatum</i>		324			22	
	<i>Pleurotaenium</i>	<i>ehrenbergii</i> var. <i>quantillum</i>	97				12	
	<i>Pleurotaenium</i>	<i>ehrenbergii</i> var. <i>undulatum</i>	275				31	
	<i>Pleurotaenium</i>	<i>elatum</i>		457	41		63	
	<i>Pleurotaenium</i>	<i>excelsum</i>		157			15	
	<i>Pleurotaenium</i>	<i>excelsum</i> var. <i>rhomphaeum</i>		148			11	
	<i>Pleurotaenium</i>	<i>kayei</i>		132			58	
	<i>Pleurotaenium</i>	<i>minutum</i>		123	12		13	
	<i>Pleurotaenium</i>	<i>minutum</i> var. <i>excavatum</i>		204			8.5	
	<i>Pleurotaenium</i>	<i>minutum</i> var. <i>latum</i>	130				17	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Pleurotaenium</i>	<i>nodosum</i>	272	272	101	101		
	<i>Pleurotaenium</i>	<i>nodosum</i> var. <i>borgei</i>	114	114	44	44		
	<i>Pleurotaenium</i>	<i>nodosum</i> var. <i>gutwinskii</i>	373	397	77	92		
	<i>Pleurotaenium</i>	<i>ovatum</i> var. <i>inermius</i>	360	141	141	144		
	<i>Pleurotaenium</i>	<i>ovatum</i> var. <i>turnidum</i>	300	120	120	130		
	<i>Pleurotaenium</i>	<i>sceptrum</i>	178	197	7	8		
	<i>Pleurotaenium</i>	<i>subcoronulatum</i>	184	354	20	58		
	<i>Pleurotaenium</i>	<i>trabecula</i> var. <i>elongatum</i>	287				23	
	<i>Pleurotaenium</i>	<i>verrucosum</i>	178				34	
	<i>Pleurotaenium</i>	sp.	275				38	
	<i>Sphaerozozma</i>	<i>granulatum</i>	11	12	11	12.5		
	<i>Sphaerozozma</i>	sp.1	11	12	9	11		
	<i>Sphaerozozma</i>	sp.3		16	12	14		
	<i>Spinoclosterium</i>	<i>cuspidatum</i>	114	132	12	17		
	<i>Spondylosium</i>	<i>nitens</i> var. <i>triangulare</i> fa. <i>javanicum</i>	30	31	30	32		
	<i>Staurastrum</i>	<i>acestrophorum</i>	24	27	18	19		
	<i>Staurastrum</i>	<i>anisacanthum</i>		22			66	
	<i>Staurastrum</i>	<i>avicula</i>		35			33	
	<i>Staurastrum</i>	<i>bifidum</i>	28	33	31	35		
	<i>Staurastrum</i>	<i>boergesenii</i> var. <i>gracilis</i>		28	82	94		
	<i>Staurastrum</i>	<i>botanense</i>	15	18	25	27		
	<i>Staurastrum</i>	<i>cerastes</i> var. <i>pulchrum</i>	45	47	55	61		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Staurastrum</i>	<i>ceylanicum</i>	18	20	24	26		
	<i>Staurastrum</i>	<i>clepsydra</i> var. <i>minimum</i>		19			23	
	<i>Staurastrum</i>	<i>clevei</i>		16.5			21	
	<i>Staurastrum</i>	<i>coarctatum</i> var. <i>hori</i> <sup>ii</sup>		15			16	
	<i>Staurastrum</i>	<i>coarctatum</i> var. <i>subcurvum</i>		19			16	
		<i>columbetoïdes</i> var. <i>intermedium</i>	50	80	13		14	
	<i>Staurastrum</i>	<i>distentum</i>	24	30			40	
	<i>Staurastrum</i>	<i>elegans</i>	52	154	131		137	
	<i>Staurastrum</i>	<i>emaciatum</i>		29			26	
	<i>Staurastrum</i>	<i>ensiferum</i>	38	60	35		67	
	<i>Staurastrum</i>	<i>exorrectum</i>	30	65			14	
	<i>Staurastrum</i>	<i>floriferum</i>	24	32	37		60	
	<i>Staurastrum</i>	<i>forficulatum</i>	27	47	30		58	
	<i>Staurastrum</i>	<i>freemanii</i>	30	60	32		72	
	<i>Staurastrum</i>	<i>galeatum</i>	18	22	29		33	
	<i>Staurastrum</i>	<i>gladiosum</i>	37	45	35		50	
	<i>Staurastrum</i>	<i>gracile</i> fa. <i>kriegeri</i>		22			33	
	<i>Staurastrum</i>	<i>gracile</i> var. <i>elongatum</i>		27	64		76	
	<i>Staurastrum</i>	<i>hypacanthum</i>	48		71			
	<i>Staurastrum</i>	<i>inconspicuum</i>	13	16			19	
	<i>Staurastrum</i>	<i>indentatum</i>	35	42	58		78	
	<i>Staurastrum</i>	<i>laeve</i>		15			20	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Staurastrum</i>	<i>leptocladum</i>	40	43	96	105		
	<i>Staurastrum</i>	<i>longebrachiatum</i>	38	44	70	87		
	<i>Staurastrum</i>	<i>longebrachiatum forma</i>	28	34	50	68		
	<i>Staurastrum</i>	<i>longebrachiatum var. australe</i>		39		82		
	<i>Staurastrum</i>	<i>longispinum</i>		89	83	92		
	<i>Staurastrum</i>	<i>multinodulosum</i>		22	68	73		
	<i>Staurastrum</i>	<i>muticum</i>		38		32		
	<i>Staurastrum</i>	<i>nodulosum</i>		24		54		
	<i>Staurastrum</i>	<i>orbiculare var. denticulatum</i>	40	52	36	46		
	<i>Staurastrum</i>	<i>orbiculare var. denticulatum</i> forma	44	53	41	50		
	<i>Staurastrum</i>	<i>orbiculare var. denticulatum</i> fa. <i>minor</i>	31	34	30	35		
	<i>Staurastrum</i>	<i>orbiculare var. protractum</i>	20	38	20	38		
	<i>Staurastrum</i>	<i>pachyrhynchum</i>		40	38	41		
	<i>Staurastrum</i>	<i>pentacerum fa. curvatum</i>	42	45	50	52		
	<i>Staurastrum</i>	<i>peristephes</i>		39	68	72		
	<i>Staurastrum</i>	<i>pinnatum var. subpinnatum</i>	29	38		45		
	<i>Staurastrum</i>	<i>pinnatum var. subpinnatum</i> fa. <i>robustum</i>	32	35	53	60		
	<i>Staurastrum</i>	<i>pseudosebaldi</i>		58	100	140		
	<i>Staurastrum</i>	<i>pseudotetracerum</i>	13	21		29		
	<i>Staurastrum</i>	<i>rectangulare var. verrucosum</i>	32	54		31		
	<i>Staurastrum</i>	<i>retusum</i>	28	29	28	31		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Staurastrum</i>	<i>reticulatum</i> var. <i>boreale</i>	15	15	15	16		
	<i>Staurastrum</i>	<i>rosei</i> var. <i>elongatum</i>	14	60	33	31	31	
	<i>Staurastrum</i>	<i>sagittarium</i>	29	33	22	26	26	
	<i>Staurastrum</i>	<i>sagittarium</i> var. <i>longispinum</i>	30	35	23	25		
	<i>Staurastrum</i>	<i>saltans</i> var. <i>sumatranum</i>	33	37	62	66		
	<i>Staurastrum</i>	<i>saltans</i> var. <i>sumatranum</i> forma 1						
	<i>Staurastrum</i>	<i>saltans</i> var. <i>sumatranum</i> forma 2	37	46	71	76		
	<i>Staurastrum</i>	<i>saltans</i> var. <i>polycharax</i> forma 3	32	43	53	59	59	
	<i>Staurastrum</i>	<i>saltans</i> forma 4	39	61	53	56	56	
	<i>Staurastrum</i>	<i>saltans</i> forma 5	43	53	53	81		
	<i>Staurastrum</i>	<i>scottii</i>		142	146	195		
	<i>Staurastrum</i>	<i>sexangulare</i> forma 2	25	56	47	73		
	<i>Staurastrum</i>	<i>sexangulare</i> var. <i>asperum</i>	48	84	59	95	95	
	<i>Staurastrum</i>	<i>sexangulare</i> var. <i>subglabrum</i>	27	43	59	82		
	<i>Staurastrum</i>	<i>sorothianum</i>	35	37	52	57	57	
	<i>Staurastrum</i>	<i>spinipendens</i>		27		64		
	<i>Staurastrum</i>	<i>subgracillimum</i>	11	26	28			
	<i>Staurastrum</i>	<i>subgracillimum</i> var. <i>tortum</i>	11	13		40	40	
	<i>Staurastrum</i>	<i>submanfeldtii</i> forma 1	38	58	50	86	86	
	<i>Staurastrum</i>	<i>submanfeldtii</i> forma 2	32	34	58	67	67	
	<i>Staurastrum</i>	<i>tangaroaii</i>	21	27	33	39	39	
	<i>Staurastrum</i>	<i>tauphorum</i>	42	51	57	122	122	

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Staurastrum</i>	<i>tetracerum</i>	8	22	18	22		
	<i>Staurastrum</i>	<i>tetracerum forma</i>	16	37	37	47		
	<i>Staurastrum</i>	<i>tohopekaligense</i>	16	32	13	30		
	<i>Staurastrum</i>	<i>tohopekaligense fa. minus</i>	17	38	16	40		
	<i>Staurastrum</i>	<i>tohopekaligense var.</i> <i>trifurcatum</i>	40	77	31	80		
	<i>Staurastrum</i>	<i>wildemanii</i>		45	45	53		
	<i>Staurastrum</i>	<i>wildemanii forma</i>	70	133	73	152		
	<i>Staurastrum</i>	<i>zonatum</i> var. <i>ceylanicum</i>	25	35		35		
	<i>Staurastrum</i>	<i>zonatum</i> var. <i>majus</i>	28	44		59		
	<i>Staurastrum</i>	sp. 1	44	102	29	112		
	<i>Staurastrum</i>	sp. 2	61	63	48	53		
	<i>Staurastrum</i>	sp. 3		26	37	40		
	<i>Staurastrum</i>	sp. 4	19	28	18	40		
	<i>Staurastrum</i>	sp. 5		28		24		
	<i>Staurastrum</i>	sp. 5		28		24		
	<i>Staurastrum</i>	sp. 6		24.5		24		
	<i>Staurastrum</i>	sp. 7	19	23	27	29		
	<i>Staurastrum</i>	sp. 8		18		28		
	<i>Staurodeshmus</i>	<i>arcuatus</i>	43	63	40	43		
	<i>Staurodeshmus</i>	<i>arcuatus</i> var. <i>octospinatus</i>	44	59	41	65		
	<i>Staurodeshmus</i>	<i>buhneimii</i> var. <i>huttefeldtii</i>	20	38	20	50		
	<i>Staurodeshmus</i>	<i>connatus</i>	27	60	30	58		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Staurodesmus</i>	<i>connatus</i> forma	18	23	20	30		
	<i>Staurodesmus</i>	<i>curvatus</i> var. <i>borgei</i>		29	31	85		
	<i>Staurodesmus</i>	<i>curvatus</i> var. <i>latus</i>		46	45	93		
	<i>Staurodesmus</i>	<i>curvatus</i> var. <i>latus</i> forma		34	31	57		
	<i>Staurodesmus</i>	<i>cuspidatus</i>	34	78	33	97		
	<i>Staurodesmus</i>	<i>cuspidatus</i> var. <i>divergens</i>	27	50	23	43		
	<i>Staurodesmus</i>	<i>cuspidatus</i> var. <i>divergens</i> forma	16	25	15	21		
	<i>Staurodesmus</i>	<i>dickiei</i> forma		25	30	32		
	<i>Staurodesmus</i>	<i>dickiei</i> var. <i>maximus</i>	63			59		
		<i>dickiei</i> var. <i>maximus</i> fa. <i>Grande</i>	70	71	69	71		
	<i>Staurodesmus</i>	<i>Extensus</i>	20	21	20	58		
	<i>Staurodesmus</i>	<i>Furcatospermus</i>	14	15	12	44		
	<i>Staurodesmus</i>	<i>gibberulus</i>	31	33	30	44		
	<i>Staurodesmus</i>	<i>gibberulus</i> forma	31	33	28	40		
	<i>Staurodesmus</i>	<i>gibberulus</i> forma <i>mucronatus</i>		26	15	40		
	<i>Staurodesmus</i>	<i>glaber</i>	30	31	54			
	<i>Staurodesmus</i>	<i>glaber</i> var. <i>hirudinella</i>		18	23	37		
	<i>Staurodesmus</i>	<i>lunatus</i> forma		38		45		
	<i>Staurodesmus</i>	<i>megacanthus</i> forma	43	49	46	73		
	<i>Staurodesmus</i>	<i>megacanthus</i> var. <i>orientalis</i>	28	30	34	84		
	<i>Staurodesmus</i>	<i>mucronatus</i> var. <i>delicatulus</i> forma		38	40	56		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Staurodesmus</i>	<i>pilosporus</i> forma	27	30	32	36		
		<i>spencerianus</i> var. <i>triangulatus</i>	21	25	22	29		
	<i>Staurodesmus</i>	<i>spencerianus</i> var. <i>triangulatus</i> forma		19		23		
	<i>Staurodesmus</i>	<i>unicornis</i> var. <i>gracilis</i>	22	25	23	47		
	<i>Staurodesmus</i>	<i>validus</i>	36	82	36	85		
	<i>Staurodesmus</i>	<i>validus</i> forma	25	49	29	43		
	<i>Staurodesmus</i>	sp. 1	110	117	120	170		
	<i>Staurodesmus</i>	sp. 2		60	60	75		
	<i>Staurodesmus</i>	sp. 3	22	32	34	39		
	<i>Staurodesmus</i>	sp. 4		13		18		
	<i>Streptonema</i>	<i>trilobatum</i>	27	29		50		
	<i>Tetmemorus</i>	<i>brebissonii</i>	152	184	26	27		
	<i>Tetmemorus</i>	<i>laevis</i>		113		26		
	<i>Triplocerus</i>	<i>gracile</i>		223		27		
	<i>Triplocerus</i>	<i>gracile</i> forma 1		241		33		
	<i>Triplocerus</i>	<i>gracile</i> forma 2		267		22		
	<i>Triplocerus</i>	<i>gracile</i> forma 3	395	428	61	64		
	<i>Triplocerus</i>	<i>gracile</i> var. <i>elegans</i>	250	470	71	95		
	<i>Triplocerus</i>	<i>splendens</i>						
	<i>Triplocerus</i>	<i>verticillatum</i> var. <i>superbum</i>	262	285		48		
	<i>Xanthidium</i>	<i>acanthophorum</i>	37	65	31	63		
	<i>Xanthidium</i>	<i>antilopaeum</i>	81	95	143	162		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
Xanthidium	<i>Xanthidium</i>	<i>apiculatum</i>	32	42	49	43		
Xanthidium	<i>Xanthidium</i>	<i>armatum</i> var. <i>anguliferum</i>	93	124	66	69		
Xanthidium	<i>Xanthidium</i>	<i>burkili</i>	46	85	48	91		
Xanthidium	<i>Xanthidium</i>	<i>calcato-aculeatum</i>	53	92	55	80		
Xanthidium	<i>Xanthidium</i>	<i>controversum</i>	27	67	24	68		
Xanthidium	<i>Xanthidium</i>	<i>hastiferum</i>	35	75	29	81		
Xanthidium	<i>Xanthidium</i>	<i>hastiferum</i> var. <i>javanicum</i>	40	77	36	80		
Xanthidium	<i>Xanthidium</i>	<i>multicorne</i>	62	113	44	103		
Xanthidium	<i>Xanthidium</i>	<i>sexmillatum</i> var. <i>pulneyense</i>	52	107	44	113		
Xanthidium	<i>Xanthidium</i>	<i>subtrilobum</i>	45	66	42	68		
Xanthidium	<i>Xanthidium</i>	<i>subtrilobum</i> var. <i>inornatum</i>	42	60	40	57		
Xanthidium	<i>Xanthidium</i>	<i>superbum</i>	88	113	55	75		
Xanthidium	<i>Xanthidium</i>	sp. 2	50	75	42	72		
Gonatozygon	<i>Gonatozygon</i>	<i>aculeatum</i>		186	12	14		
Gonatozygon	<i>Gonatozygon</i>	<i>brebissonii</i>		124		5		
Gonatozygon	<i>Gonatozygon</i>	<i>monotaenium</i> forma		180		6		
Gonatozygon	<i>Gonatozygon</i>	<i>monotaenium</i> var. <i>gracile</i>		90		4		
Cylindrocystis	<i>Cylindrocystis</i>	<i>brebissonii</i> var. <i>minor</i>		35		14		
Netrium	<i>Netrium</i>	<i>digitus</i>	108	161	32	39		
Netrium	<i>Netrium</i>	<i>digitus</i> var. <i>lamellatum</i>		266		50		
Netrium	<i>Netrium</i>	sp.	530	516	56	61		
Spirotaenium	<i>Spirotaenium</i>	<i>condensata</i>	97		11			

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
Zygnemataceae	<i>Mougeotia</i>	<i>acadiana</i>	265	305	23	30		
	<i>Mougeotia</i>	<i>poinciana</i>	170	200	15	17		
	<i>Mougeotia/Debarya</i>	sp. 1	247	270	45	58		
	<i>Mougeotia/Debarya</i>	sp. 2	40	70	2	4		
	<i>Spirogyra</i>	<i>ellipsoспора</i>	180	305	110	120		
Chloromonadaceae	<i>Gonyostomum</i>	<i>latum</i>		35		10		
	<i>Merotrichia</i>	<i>basillata</i>	40	50	25	188		
Euglenaceae	<i>Euglena</i>	<i>acus</i>		155		10		
	<i>Euglena</i>	<i>oxyuris</i>		395		52		
	<i>Euglena</i>	<i>sanguinea</i>	55	91	29	43		
	<i>Euglena</i>	<i>spiroyra</i>		110		22		
	<i>Euglena</i>	sp.	23	33	10	11		
	<i>Lepocinclis</i>	<i>ovata</i> var. <i>deflandriana</i>		31		14		
	<i>Lepocinclis</i>	<i>ovum</i>		34		26		
	<i>Lepocinclis</i>	<i>ovum</i> var. <i>australis</i>	24			20		
	<i>Lepocinclis</i>	<i>salina</i>	34	38	27	29		
	<i>Phacus</i>	<i>curvicauda</i>	35	44	29	31		
	<i>Phacus</i>	<i>curvicauda forma</i>	40	46	32	34		
	<i>Phacus</i>	<i>hellikoides</i>		85		42		
	<i>Phacus</i>	<i>longicauda</i>		115		39		
	<i>Phacus</i>	<i>suecicas</i>		30		20		
	<i>Phacus</i>	sp. 1	132	136	52	56		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Phacus</i>	sp. 2	102	122	36	39		
	<i>Strombomonas</i>	<i>fluvialis</i> var. <i>rugosa</i>	75	91	30	32		
	<i>Strombomonas</i>	sp. 1	73	76	30	33		
	<i>Strombomonas</i>	sp. 2	37	53	22	27		
	<i>Strombomonas</i>	sp. 3	38	42	21	23		
	<i>Strombomonas</i>	sp. 4	50	58		25		
	<i>Trachelomonas</i>	<i>armata</i> var. <i>steinii</i>	45	56		35		
	<i>Trachelomonas</i>	<i>clavata</i> var. <i>subarmata</i>	57			23		
	<i>Trachelomonas</i>	<i>granulosa</i>	24			21		
	<i>Trachelomonas</i>	<i>hispida</i>	37			24		
	<i>Trachelomonas</i>	<i>oblonga</i> var. <i>australis</i>	16	27	15	27		
	<i>Trachelomonas</i>	<i>playfairii</i>	31			20		
	<i>Trachelomonas</i>	<i>splendida</i> forma	48			17		
	<i>Trachelomonas</i>	<i>superba</i>	42	48	32	39		
	<i>Trachelomonas</i>	sp. 1	45	71	31	65		
	<i>Trachelomonas</i>	sp. 2	64	65	16	17		
Chrysococcaceae	<i>Chrysococcus</i>	<i>radians</i>	6	7	2	6		
Dinobryaceae	<i>Dinobryon</i>	<i>bavaricum</i>	33	37	8	9		
	<i>Dinobryon</i>	<i>divergens</i> var. <i>schauinslandii</i>	46	49	8	10		
	<i>Dinobryon</i>	<i>sertularia</i>	30	36	8	9		
Sytruraceae	<i>Mallomonas</i>	<i>splendens</i>	48			13		
Sciadaceae	<i>Centritractus</i>	<i>belanophorus</i>	30	65	6.5	9		

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
Glenodiniaceae	<i>Ophiocytium</i>	<i>capitatum</i>	5	7	7	21		
	<i>Sphaeroerdinium</i>	<i>cinctum</i> var. <i>Immeticum</i>					41	
Peridiniaceae	<i>Peridinium</i>	<i>gatunense</i>	63	68	70	78		
	<i>gutwinski</i>		60	65	54	61		
	<i>inconspicuum</i>			30		30		
	<i>Peridinium</i>	<i>intermedium</i> var. <i>conicum</i>		30				
	<i>Peridinium</i>	<i>palustre</i> var. <i>raciborskii</i>	80	91	77	85		
	<i>Peridinium</i>	<i>umbonatum</i> var. <i>inaequale</i>		24		21		
	<i>Peridinium</i>	sp. 1	116	118	96	99		
	<i>Aphanocapsa</i>	<i>koordensi</i>			2		2	3
Chroococcaceae	<i>Coelosphaerium</i>	<i>pallidum</i>	2	4	1.5	3		
	<i>Merismopedia</i>	<i>glauca</i>		4		3		
	<i>Merismopedia</i>	sp. 1					1.5	3
	<i>Microcytis</i>	<i>aeruginosa</i>				4	5	
	cf. <i>Aphanothecce</i>	sp						
	<i>Synechococcus</i>	sp						
Nostocaceae	<i>Anabaena</i>	<i>catenula</i>	6	8	7	10		
	<i>Anabaena</i>	<i>flos-aquae</i>					4	6
	<i>Nostoc</i>	sp						
Oscillatoriaceae	<i>Oscillatoria</i>	<i>lemmermannii</i>	7	12			2	
	<i>Oscillatoria</i>	<i>princeps</i>		30	3		4	
	<i>Oscillatoria</i>	<i>subbrevis</i> fa. <i>major</i>	1	3	10			11

Family	Genus	Species	Cell length min. μm	Cell length max. μm	Cell width min. μm	Cell width max. μm	Cell diameter min. μm	Cell diameter max. μm
	<i>Oscillatoria</i>	sp. 1	2	4	6	7		
	<i>Oscillatoria</i>	sp. 2	2	4	5	6		
	<i>Oscillatoria</i>	sp. 3	3	4			10	
	<i>Spirulina</i>	<i>princeps</i>		3				
	<i>Lyngbya</i>	sp					8	
	<i>Microcoleus</i>	sp						
	<i>Porphyrosiphon</i>	sp						
	<i>cf. Pseudanabaena</i>	sp						
	<i>Scytothrix</i>	sp						
	<i>Hapalosiphon</i>	sp.						
	<i>Stigonema</i>	sp						
	<i>Batrachospermum</i>	<i>moniliforme</i>						
	<i>Pleurocapsa</i>	sp						
	<i>cf. Chroococcidiopsis</i>	sp						
	<i>Scytonema</i>	sp						
	<i>Tolyphothrix</i>	sp						
	<i>Microchaete</i>	sp						
	<i>Rivulariaceae</i>	<i>Calothrix</i>	sp					

## Appendix 2 Magela Creek diatoms

Genus	Species	length min. µm	length max. µm	width min. µm	width max. µm	Length (mm)	Scale µ	width (mm)	Scale µ
<i>Achanthes</i>	<i>affinis</i>	17	5	24	10	7	10	7	10
<i>Achanthes</i>	<i>linearis</i>	22	4.29	31	10	6	10	6	10
<i>Achanthes</i>	<i>minutissima</i>	17	3.57	24	10	5	10	5	10
<i>Achanthes</i>	sp. 1	31	11.43	44	10	16	10	16	10
<i>Amphora</i>	<i>argus</i>	29	7.14	41	10	10	10	10	10
<i>Anomooneis</i>	<i>exilis</i> var. <i>gomphonemacea</i>	41	9.29	58	10	13	10	13	10
<i>Anomooneis</i>	<i>exilis</i> var. <i>lanceolata</i>	27	6.43	38	10	9	10	9	10
<i>Anomooneis</i>	<i>serians</i> var. <i>acuta</i>	24	5.71	33	10	8	10	8	10
<i>Anomooneis</i>	<i>serians</i> var. <i>brachysira</i>	35	10.71	49	10	15	10	15	10
<i>Asterionella</i>	<i>zasmimensis</i>	31	5	43	10	7	10	7	10
<i>Campylodiscus</i>	<i>pervulsus</i>	104	103.57	58	50	58	50	58	50
<i>Cocconeis</i>	<i>placentula</i>	29	14.29	40	10	20	10	20	10
<i>Cocconeis</i>	<i>scutellum</i>	14	7.14	19	10	10	10	10	10
<i>Coscinodiscus</i>	<i>asteromphalus</i>	70	70.71	98	10	99	10	99	10
<i>Coscinodiscus</i>	<i>lineatus</i>	50	31.43	70	10	44	10	44	10
<i>Cyclotella</i>	<i>meneghiniana</i>	14	5.71	20	10	8	10	8	10
<i>Cyclotella</i>	<i>stylorum</i>	54	52.86	75	10	74	10	74	10
<i>Cymbella</i>	<i>cymbiformis</i>	0	0	0	0	9	10	9	10
<i>Cymbella</i>	<i>claasseniae</i>	36	6.43	51	10	9	10	9	10
<i>Cymbella</i>	<i>hustedii</i>	25	8.57	35	10	12	10	12	10
<i>Cymbella</i>	<i>minuta</i>	43	11.43	60	10	16	10	16	10
<i>Cymbella</i>	<i>spicula</i>	59	7.14	83	10	10	10	10	10

Genus	Species	length min. $\mu\text{m}$	length max. $\mu\text{m}$	width min. $\mu\text{m}$	width max. $\mu\text{m}$	Length (mm)	Scale $\mu$	width (mm)	Scale $\mu$
<i>Cymbella</i>	<i>subturgida</i>	80	17.14	112	10	24	10	24	10
<i>Diploneis</i>	<i>subadvena</i>	21	8.57	29	10	12	10	12	10
<i>Epithemia</i>	<i>cistula</i>	56	12.14	78	10	17	10	17	10
<i>Eunotia</i>	<i>aequalis</i>	46	5	65	10	7	10	7	10
<i>Eunotia</i>	<i>ambigua</i>	26	3.57	36	10	5	10	5	10
<i>Eunotia</i>	<i>astriclevae</i>	59	6.43	83	10	9	10	9	10
<i>Eunotia</i>	<i>bicapitata</i>	190	5.71	133	20	4	20	4	20
<i>Eunotia</i>	<i>camelus</i>	32	6.43	45	10	9	10	9	10
<i>Eunotia</i>	<i>camelus</i> var. <i>denticulata</i>	99	10	69	20	7	20	7	20
<i>Eunotia</i>	<i>camelus</i> var. <i>ventricosa</i>	43	7.14	60	10	10	10	10	10
<i>Eunotia</i>	<i>didyma</i> var. <i>media</i>	116	14.29	81	20	10	20	10	20
<i>Eunotia</i>	<i>flexuosa</i>	213	2.86	149	20	4	10	4	10
<i>Eunotia</i>	<i>herbridica</i> var. <i>bergii</i>	60	11.43	42	20	8	20	8	20
<i>Eunotia</i>	<i>lunaris</i>	66	2.86	93	10	4	10	4	10
<i>Eunotia</i>	<i>monodon</i>	45	7.86	63	10	11	10	11	10
<i>Eunotia</i>	<i>monodon</i> var. <i>tropica</i>	97	10	68	20	7	20	7	20
<i>Eunotia</i>	<i>parallela</i>	107	10	75	20	7	20	7	20
<i>Eunotia</i>	<i>pectinalis</i>	32	5.71	45	10	8	10	8	10
<i>Eunotia</i>	<i>pectinalis</i> var. <i>undulata</i>	64	11.43	45	20	8	20	8	20
<i>Eunotia</i>	<i>pectinalis</i> var. <i>undulata</i> f. <i>fossilis</i>	48	7.14	67	10	10	10	10	10
<i>Eunotia</i>	<i>pseudoindica</i> var. <i>gracilis</i>	0	0	0	0	5	20	5	20
<i>Eunotia</i>	<i>pseudopectinalis</i>	91	7.14	128	10	5	20	5	20

Genus	Species	length min. $\mu\text{m}$	length max. $\mu\text{m}$	width min. $\mu\text{m}$	width max. $\mu\text{m}$	Length (mm)	Scale $\mu$	width (mm)	Scale $\mu$
<i>Eunotia</i>	<i>rabenhorstiana</i> var. <i>elongatum</i>	119	8.57	83	20	6	20	6	20
<i>Eunotia</i>	<i>rabenhorstii</i> var. <i>africana</i> f. <i>triodon</i>	23	2.14	32	10	3	10	3	10
<i>Eunotia</i>	<i>sudetica</i> var. <i>australis</i>	26	3.57	37	10	5	10	5	10
<i>Eunotia</i>	<i>triconfusa</i>	29	3.57	40	10	5	10	5	10
<i>Eunotia</i>	<i>trigibba</i>	36	7.14	50	10	10	10	10	10
<i>Eunotia</i>	<i>trinacia</i> var. <i>undulata</i>	34	2.14	47	10	3	10	3	10
<i>Eunotia</i>	<i>zygodon</i>	77	20	54	20	14	20	14	20
<i>Eunotia</i>	<i>zygodon</i> var. <i>depressa</i>	107	14.29	75	20	10	20	10	20
<i>Eunotia</i>	<i>zygodon</i> var. <i>emarginata</i>	111	11.43	78	20	8	20	8	20
<i>Fragilaria</i>	<i>strangulata</i>	61	5.71	86	10	8	10	8	10
<i>Frustulia</i>	<i>entrancensis</i>	73	14.29	102	10	20	10	20	10
<i>Frustulia</i>	<i>rhomboides</i>	65	14.29	91	10	20	10	20	10
<i>Gomphonema</i>	<i>gracile</i>	61	9.29	86	10	13	10	13	10
<i>Gomphonema</i>	<i>intricatum</i> var. <i>vibrio</i>	109	15.71	153	10	22	10	22	10
<i>Gomphonema</i>	<i>parvulum</i>	24	5.71	34	10	8	10	8	10
<i>Gomphonema</i>	<i>subtile</i>	33	6.43	46	10	9	10	9	10
<i>Hantzschia</i>	<i>amphioxys</i>	35	6.43	49	10	9	10	9	10
<i>Hantzschia</i>	<i>amphioxys</i> var. <i>gracilis</i>	205	10.67	154	20	8	20	8	20
<i>Mastogloia</i>	<i>ellipta</i> var. <i>danssei</i>	46	15	65	10	21	10	21	10
<i>Melosira</i>	<i>distans</i>	10	3.57	14	10	5	10	5	10
<i>Melosira</i>	<i>granulata</i>	21	11.43	30	10	16	10	16	10
<i>Melosira</i>	<i>granulata</i> var. <i>angustissima</i>	21	5	30	10	7	10	7	10

Genus	Species	length min. $\mu\text{m}$	length max. $\mu\text{m}$	width min. $\mu\text{m}$	width max. $\mu\text{m}$	Length (mm)	Scale $\mu$	width (mm)	Scale $\mu$
<i>Melosira</i>	<i>granulata</i> var. <i>muzzanensis</i>	21	9.29	30	10	13	10	10	10
<i>Navicula</i>	<i>acceptata</i>	0	0						
<i>Navicula</i>	<i>americana</i>	54	14.29	75	10	20	10	10	10
<i>Navicula</i>	<i>anglica</i> var. <i>subsalsa</i>	26	9.29	36	10	13	10	10	10
<i>Navicula</i>	<i>arvensis</i>	13	5	18	10	7	10	10	10
<i>Navicula</i>	<i>bremensis</i>	14	2.86	19	10	4	10	10	10
<i>Navicula</i>	<i>deserta</i>	22	6.43	31	10	9	10	10	10
<i>Navicula</i>	<i>disparata</i>	15	6.43	21	10	9	10	10	10
<i>Navicula</i>	<i>dutoitiana</i>	24	3.57	33	10	5	10	10	10
<i>Navicula</i>	<i>geinitzi</i>	14	5.71	20	10	8	10	10	10
<i>Navicula</i>	<i>gysingensis</i>	5	2.86	7	10	4	10	10	10
<i>Navicula</i>	<i>halophiloides</i>	32	7.14	45	10	10	10	10	10
<i>Navicula</i>	<i>jungii</i>	29	5.71	40	10	8	10	10	10
<i>Navicula</i>	<i>mutica</i>	21	6.43	29	10	9	10	10	10
<i>Navicula</i>	<i>nuda</i>	43	8.57	60	10	12	10	10	10
<i>Navicula</i>	<i>perrotetii</i>	110	18.57	77	20	13	20	20	20
<i>Navicula</i>	<i>pseudolandica</i>	12	5	17	10	7	10	10	10
<i>Navicula</i>	<i>pseudosubtilissima</i>	19	4.29	26	10	6	10	10	10
<i>Navicula</i>	<i>pupula</i>	33	7.14	46	10	10	10	10	10
<i>Navicula</i>	<i>pupula</i> var. <i>rectangularis</i>	46	8.57	65	10	12	10	10	10
<i>Navicula</i>	<i>radiosa</i>	51	6.43	72	10	9	10	10	10
<i>Navicula</i>	<i>rhynchocephala</i>	26	6.43	37	10	9	10	10	10
<i>Navicula</i>	<i>schwabei</i>	124	18.57	87	20	13	20	20	20

Genus	Species	length min. µm	length max. µm	width min. µm	width max. µm	Length (mm)	Scale µ	width (mm)	Scale µ
<i>Navicula</i>	<i>viridula</i>	25	6.43	35	10	9	10	10	10
<i>Nerium</i>	<i>bisulcatum</i>	60	12.14	84	10	17	10	10	10
<i>Nerium</i>	<i>dilatatum</i>	84	34.29	59	20	24	20	20	20
<i>Nerium</i>	<i>iridis</i> var. <i>amphigomphus</i>	49	12.86	69	10	18	10	10	10
<i>Nitzschia</i>	<i>congolensis</i>	57	2.86	80	10	4	10	10	10
<i>Nitzschia</i>	<i>cursoria</i>	56	5	78	10	7	10	10	10
<i>Nitzschia</i>	<i>habirshawii</i>	430	23.33	129	50	7	50	7	50
<i>Nitzschia</i>	<i>lanceolata</i>	31	5	44	10	7	10	7	10
<i>Nitzschia</i>	<i>longissima</i>	69	4.29	97	10	6	10	6	10
<i>Nitzschia</i>	<i>obtusa</i> var. <i>nana</i>	31	4.29	43	10	6	10	6	10
<i>Nitzschia</i>	<i>obtus var. scalpelliformis</i>	86	7.14	120	10	10	10	10	10
<i>Nitzschia</i>	<i>palea</i>	32	5	45	10	7	10	7	10
<i>Nitzschia</i>	<i>rostellata</i>	60	3.57	84	10	5	10	5	10
<i>Nitzschia</i>	<i>subcapitellata</i>	43	4.29	60	10	6	10	6	10
<i>Nitzschia</i>	<i>trybillionella</i> var. <i>maxima</i>	35	12.86	49	10	18	10	18	10
<i>Pinnularia</i>	<i>acrosphaeria</i> var. <i>turgidula</i>	129	18.57	90	20	13	20	13	20
<i>Pinnularia</i>	<i>biceps</i>	47	7.14	66	10	10	10	10	10
<i>Pinnularia</i>	<i>bogotensis</i>	131	17.14	183	10	24	10	24	10
<i>Pinnularia</i>	<i>braunii</i> var. <i>amphicephala</i>	30	5.71	42	10	8	10	8	10
<i>Pinnularia</i>	<i>brevicostata</i> f. <i>ventricosa</i>	79	11.43	110	10	16	10	16	10
<i>Pinnularia</i>	<i>brevicostata</i> var. <i>sumatrana</i>	100	18.57	70	20	13	20	13	20
<i>Pinnularia</i>	<i>gibba</i>	55	11.43	77	10	16	10	16	10
<i>Pinnularia</i>	<i>gibba</i> var. <i>linearis</i>	64	10.71	89	10	15	10	15	10

Genus	Species	length min. $\mu\text{m}$	length max. $\mu\text{m}$	width min. $\mu\text{m}$	width max. $\mu\text{m}$	Length (mm)	Scale $\mu$	width (mm)	Scale $\mu$
<i>Pinnularia</i>	<i>intermedia</i>	43	7.14	60	10	10	10	10	10
<i>Pinnularia</i>	<i>legumen</i>	87	10	122	10	14	14	10	10
<i>Pinnularia</i>	<i>luculenta</i>	98	11.43	137	10	16	16	10	10
<i>Pinnularia</i>	<i>major</i>	166	21.43	116	20	15	15	20	20
<i>Pinnularia</i>	<i>microstauron</i>	36	5	50	10	7	7	10	10
<i>Pinnularia</i>	<i>rangoonensis</i>	67	10.71	94	10	15	15	10	10
<i>Pinnularia</i>	<i>stauroptera</i>	71	10.71	100	10	15	15	10	10
<i>Rhizosolenia</i>	<i>eriensis</i>	16	15	23	10	21	21	10	10
<i>Rhopalodia</i>	<i>gibba</i> var. <i>ventricosa</i>	44	20.71	61	10	29	29	10	10
<i>Stauroneis</i>	<i>anceps</i>	91	14.29	128	10	20	20	10	10
<i>Stauroneis</i>	<i>anceps</i> var. <i>birostris</i>	81	12.14	113	10	17	17	10	10
<i>Stauroneis</i>	<i>phoenicenteron</i>	102	20	143	10	28	28	10	10
<i>Stauroneis</i>	<i>phoenicenteron</i> var. <i>hattorii</i>	71	12.86	99	10	18	18	10	10
<i>Stauroneis</i>	<i>phoenicenteron</i> var. <i>nobilis</i>	71	14.29	100	10	20	20	10	10
<i>Stenopterobia</i>	<i>intermedia</i>	159	5.33	119	20	4	4	20	20
<i>Stenopterobia</i>	<i>intermedia</i> var. <i>capitata</i>	231	5.33	173	20	4	4	20	20
<i>Suriella</i>	<i>arachnoidea</i>	29	20	40	10	28	28	10	10
<i>Suriella</i>	<i>biseriata</i>	189	46.67	142	20	35	35	20	20
<i>Suriella</i>	<i>biseriata</i> var. <i>constricta</i>	72	17.86	101	10	25	25	10	10
<i>Suriella</i>	<i>biseriata</i> var. <i>subparallelia</i>	112	21.43	157	10	30	30	10	10
<i>Suriella</i>	<i>delicatissima</i>	66	7.14	93	10	10	10	10	10
<i>Suriella</i>	<i>gemma</i>	66	27.14	92	10	38	38	10	10
<i>Suriella</i>	<i>linearis</i> var. <i>constricta</i>	91	17.86	127	10	25	25	10	10

Genus	Species	length min. µm	length max. µm	width min. µm	width max. µm	Length (mm)	Scale µ	width (mm)	Scale µ
<i>Suriella</i>	<i>robusta</i>	83	22.14	116	10	31	10		
<i>Suriella</i>	<i>spiralis</i>	117	65.22	54	50	30	50		
<i>Suriella</i>	<i>thienemannii</i>	81	18.67	61	20	14	20		
<i>Synedra</i>	<i>ulna</i>	196	7.14	137	20	5	20		
<i>a form of unknown affinity</i>									
<i>Eunotia</i>	<i>serra</i> var. <i>diadema</i>	0	0	0	0				
<i>Navicula</i>	<i>lyra</i>	0	0	0	0				
<i>Rhyzosolenia</i>	<i>loniseta</i>	0	0	0	0				
<i>Synedra</i>	<i>rumpens</i>	0	0	0	0				
<i>Synedra</i>	<i>tabulata</i>	0	0	0	0				
<i>Tabellaria</i>	<i>flocculosa</i>	0	0	0	0				

Appendix 3 Magela Creek vegetation

Family	Genus	Species		Aquatic	Terrrestrial	Habitat	Growth form
<b>Annuals</b>							
	<i>Aeschynomene americana</i> *		A	F	Ase		
	<i>Aeschynomene aspera</i> *		A	PF	Ase		
	<i>Aeschynomene indica</i>		A	PF	Ase		
	<i>Alysicarpus muelleri</i>		T	F	Th		
	<i>Alysicarpus vaginalis</i>		T	PF	Th		
	<i>Alysicarpus siliculosum</i>		T	F	Th		
	<i>Bacopa floritunda</i>		T	PF	Th		
	<i>Basilicum polystachyon</i>		T	F	Th		
	<i>Blumea integrifolia</i>		T	F	Th		
	<i>Blumea tenuilla</i>		T	F	Th		
	<i>Blyxa aubertii</i> var. <i>indeterminate</i>	A	P	Ahs			
	<i>Blyxa octandra</i>	A	BP	Ahs			
	<i>Boerhaavia coccinea</i>		T	F	Th		
	<i>Boerhaavia australiana</i>		T	F	Th		
	<i>Spermacoce breviflora</i>		T	F	Th		
	<i>Brachiaria holosericea</i> subsp. <i>Indeterminate</i>		T	F	Tg		
	<i>Brachiaria pubigera</i>		T	F	Tg		
	<i>Caldesia oligococca</i>	A	BP	Ahf			
	<i>Goodenia pilosa</i>		T	F	Th		
	<i>Cardiospermum halicacabum</i> var. <i>halicacabum</i>		T	F	Th		
	<i>Cartonema spicatum</i>		T	F	Th		

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Cassia</i>	<i>occidentalis</i>		T	F	Ts	
	<i>Centipeda</i>	<i>minima</i> subsp. <i>Indeterminate</i>		T	PF	Th	
	<i>Centrolepis</i>	<i>exserta</i>		T	F	Tc	
	<i>Ceratophyllum</i>	<i>demersum</i>	A	BPS	Ahs		
	<i>Ceratopteris</i>	<i>thalictroides</i>	A	BPFs	Ahs		Vegetation taxonomy checked against Kym Brennan's
	<i>Cleome</i>	<i>tetrandra</i> var. <i>indeterminate</i>	T	F	Th		
	<i>Cleome</i>	<i>viscosa</i>	T	F	Th		Plantbuster access database 15/08/03 by C Camilleri
	<i>Coldenia</i>	<i>procumbens</i>	T	PF	Th		
	<i>Commelinia</i>	<i>ensifolia</i>	T	F	Th		
	<i>Commelinia</i>	<i>agrostophylla</i>	T	F	Th		
	<i>Corchorus</i>	<i>aestuans</i> *	T	F	Ts		
	<i>Crotalaria</i>	<i>medicaginea</i>	T	F	Ts		
	<i>Cyanotis</i>	<i>axillaris</i>	T	P	Th		
	<i>Cynodon</i>	<i>dactylon</i> *	T	F	Tg		
	<i>Cyperus</i>	<i>aquatilis</i>	T	P	Tc		
	<i>Cyperus</i>	<i>breviculmis</i>	T	P	Tc		
	<i>Cyperus</i>	<i>castaneus</i>	T	F	Tc		
	<i>Cyperus</i>	<i>compressus</i>	T	F	Tc		
	<i>Cyperus</i>	<i>cuspidatus</i>	T	F	Tc		
	<i>Cyperus</i>	<i>digitatus</i>	T	P	Tc		
	<i>Cyperus</i>	<i>iria</i>	T	F	Tc		
	<i>Cyperus</i>	<i>polystachyos</i>	T	F	Tc		
	<i>Dentella</i>	<i>dioeca</i>	T	F	Th		

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Dentella</i>	<i>repens</i>		T	F	Th	
	<i>Desmodium</i>	<i>filiforme</i>		T	PF	Th	
	<i>Desmodium</i>	<i>flagellare</i>		T	PF	Th	
	<i>Digitaria</i>	<i>bicornis</i> *		T	F	Tg	
	<i>Alyxias</i>	<i>stellata</i>	A		P	Ahe/s	
	<i>Ebermaiera</i>	<i>glauca</i>		T	F	Th	
	<i>Echinochloa</i>	<i>cclona</i> *		T	F	Tg	
	<i>Echinochloa</i>	<i>elliptica</i>		T	P	Tg	
	<i>Ecliptia</i>	<i>prostrata</i>		T	PF	Th	
	<i>Ectrosia</i>	<i>leporina</i> var. <i>indeterminate</i>		T	F	Tg	
	<i>Ectrosia</i>	<i>shultzii</i> var. <i>indeterminate</i>		T	F	Tg	
	<i>Eleocharis</i>	<i>caespitosissima</i>	A		BP	Ace	
	<i>Epaltes</i>	sp.		T	F	Th	
	<i>Eragrostis</i>	<i>tenellula</i>		T	F	Tg	
	<i>Eriocaulon</i>	<i>setaceum</i>	A		PF	Ahs	
	<i>Eriocaulon</i>	<i>spectabile</i>		T	F	Th	
	<i>Eulalia</i>	<i>annua</i>		T	F	Tg	
	<i>Euphorbia</i>	<i>hirta</i> *		T	F	Th	
	<i>Euphorbia</i>	<i>vachellii</i>		T	PF	Th	
	<i>Fimbristylis</i>	<i>aestivalis</i>		T	P	Tc	
	<i>Fimbristylis</i>	<i>clavata</i>		T	F	Tc	
	<i>Fimbristylis</i>	<i>littoralis</i> var. <i>littoralis</i>		T	F	Tc	
	<i>Fimbristylis</i>	<i>pauciflora</i>		T	F	Tc	

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Fimbristylis</i>	<i>punctata</i>		T	F	Tc	
	<i>Fimbristylis</i>	<i>simplex</i>		T	PF	Tc	
	<i>Fuirena</i>	<i>ciliaris</i>		T	PF	Tc	
	<i>Glinus</i>	<i>lotoides</i>		T	P	Th	
	<i>Glinus</i>	<i>oppositifolius</i>		T	PF	Th	
	<i>Oldenlandia</i>	<i>mitrasacmoides</i> subsp. <i>indeterminate</i>		T	F	Th	
	<i>Heliotropium</i>	<i>crispatum</i>		T	P	Th	
	<i>Heliotropium</i>	<i>indicum</i> *		T	PF	Th	
	<i>Hibiscus</i>	<i>sabdariffa</i> *		T	F	Ts	
	<i>Hydrocotyle</i>	<i>grammatocarpa</i>		T	P	Th	
	<i>Hygrochloa</i>	<i>aquatica</i>	A	P		Agf	
	<i>Hygrophila</i>	<i>salicifolia</i>		T	F	Th	
	<i>Hyptis</i>	<i>suaveolens</i> *		T	F	Ts	
	<i>Ipomoea</i>	<i>aquatica</i>	A	BP	Ave		
	<i>Ipomoea</i>	<i>coptica</i>		T	P	Tv	
	<i>Isoetes</i>	<i>coromandelina</i> subsp. <i>macrotuberculata</i> A		P	Ahs		
	<i>Limnophila</i>	<i>australis</i>	A	BP	Ahe		
	<i>Limnophila</i>	<i>chinensis</i>		T	F	Th	
	<i>Limnophila</i>	<i>fragrans</i>		T	F	Th	
	<i>Limnophila</i>	<i>gratiolooides</i>	A	BP	Ahe		
	<i>Lindernia</i>	<i>mitrasacmoides</i>		T	F	Th	
	<i>Lindernia</i>	<i>plantaginea</i>		T	F	Th	
	<i>Lipocarpha</i>	<i>microcephala</i>		T	F	Tc	

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Ludwigia</i>	<i>hyssopifolia</i>		T	F		Th
	<i>Ludwigia</i>	<i>octovalvis</i> subsp. indeterminate		T	P		Th
	<i>Ludwigia</i>	<i>perennis</i>		T	PF		Th
	<i>Maidenia</i>	<i>rubra</i>	A	BP	Ahs		
	<i>Malachra</i>	<i>fasciata</i> var. <i>lineariloba</i> *	A	F	Ase		
	<i>Marsilea</i>	<i>crenata</i>	A	B	Ahf		
	<i>Marsilea</i>	<i>drummondii</i>	A	B	Ahf		
	<i>Marsilea</i>	<i>mutica</i>	A	BP	Ahf		
	<i>Melochia</i>	<i>cocchorifolia</i>		T	F		Th
	<i>Microcarpaea</i>	<i>minima</i>		T	F		Th
	<i>Mimulus</i>	<i>debilis</i>		T	F		Th
	<i>Mimulus</i>	<i>uvelliae</i> var. indeterminate		T	F		Th
	<i>Mitrasacme</i>	<i>exserta</i>		T	F		Th
	<i>Monochoria</i>	<i>cyanea</i>	A	PF	Ahb/e		
	<i>Monochoria</i>	<i>vaginalis</i>	A	P	Ahb/e		
	<i>Myriophyllum</i>	<i>diococcum</i>	A	BP	Ahe		
	<i>Najas</i>	<i>tenuifolia</i>	A	BPS	Ahs		
	<i>Nelsonia</i>	<i>campestris</i>		T	F		Th
	<i>Nymphoides</i>	<i>hydrocharoides</i>	A	P	Ahf		
	<i>Nymphoides</i>	<i>minima</i>	A	P	Ahf		
	<i>Nymphoides</i>	<i>parviflora</i>	A	P	Ahf		
	<i>Nymphoides</i>	<i>spongiosa</i>	A	BP	Ahf		
	<i>Oryza</i>	<i>meridionalis</i>	A	P	Age		

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Panicum</i>	<i>mindanaense</i>		T	F	Tg	
	<i>Phyla</i>	<i>nodiflora</i> var. <i>nodiflora</i>		T	PF	Th	
	<i>Phyllanthus</i>	<i>minutiflorus</i>		T	F	Th	
	<i>Physalis</i>	<i>minima</i> *		T	F	Th	
	<i>Portulaca</i>	<i>bicolor</i> var. <i>indeterminate</i>		T	F	Th	
	<i>Portulaca</i>	<i>filifolia</i>		T	F	Th	
	<i>Rhynchospora</i>	<i>longisetis</i>		T	F	Tc	
	<i>Rotala</i>	<i>occultiflora</i>	A	T	F	A/Th	
	<i>Sacciolepis</i>	<i>indica</i>		T	F	Tg	
	<i>Sacciolepis</i>	<i>myosuroides</i>		T	F	Tg	
	<i>Schizachyrium</i>	<i>fragile</i>		T	F	Tg	
	<i>Scoparia</i>	<i> dulcis</i>		T	F	Th	
	<i>Sesbania</i>	<i>cannabina</i> var. <i>cannabina</i>	A	PF	AsE		
	<i>Sesbania</i>	<i>sesban</i>	A	F	AsE		
	<i>Setaria</i>	<i>apiculata</i>		T	F	Tg	
	<i>Sporobolus</i>	<i>australisicus</i>		T	F	Tg	
	<i>Stylium</i>	<i>floodii</i>		T	F	Th	
	<i>Stylium</i>	<i>rotundifolium</i>		T	F	Th	
	<i>Trianthema</i>	<i>portulacastrum</i>		T	F	Th	
	<i>Triglochin</i>	<i>dubium</i>	A	P	Ahf/s		
	<i>Utricularia</i>	<i>aurea</i>	A	BP	Ahd		
	<i>Utricularia</i>	<i>exoleta</i>	A	BP	Ahd		
	<i>Utricularia</i>	<i>muelleri</i>	A	BP	Ahd		

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Vallisneria</i>	<i>gigantea</i>	A		BP	Ahs	
	<i>Cyanthillium</i>	<i>cinerarium</i>	T	F	Th		
	<i>Whiteochloa</i>	<i>capillipes</i>	T	F	Tg		
<b>Perennials</b>							
	<i>Acacia</i>	<i>holosericea</i>	T	F	Ts		
	<i>Alstonia</i>	<i>actinophylla</i>	T	F	Tt		
	<i>Alternanthera</i>	<i>micrantha</i>	T	PF	Th		
	<i>Alternanthera</i>	<i>nodiflora</i>	T	P	Th		
	<i>Aniseia</i>	<i>martinicensis</i>	A	F	Av		
	<i>Azolla</i>	<i>pinnata</i>	A	PBF	Ahb		
	<i>Barringtonia</i>	<i>acutangula</i> subsp. <i>Acutangula</i>	A	T	BPF	A/Tt	
	<i>Canarium</i>	<i>australianum</i>	T	F	Tt		
	<i>Cayratia</i>	<i> trifolia</i>	T	F	Tv		
	<i>Cynodon</i>	<i>radiatus*</i>	T	F	Tg		
	<i>Cyperus</i>	<i>haspan</i> subsp. <i>Indeterminate</i>	T	F	Tc		
	<i>Cyperus</i>	<i>javanicus</i> subsp. <i>Armstrongii</i>	T	F	Tc		
	<i>Cyperus</i>	<i>platystylis</i>	A	BPS	Ace		
	<i>Eriachne</i>	<i>obtusa</i>	T	F	Tg		
	<i>Eriachne</i>	<i>shultziana</i>	T	F	Tg		
	<i>Eriachne</i>	<i>trisetaria</i>	T	F	Tg		
	<i>Eucalyptus</i>	<i>alba</i> var. <i>australasica</i>	T	F	Tt		
	<i>Eucalyptus</i>	<i>papuana</i>	T	F	Tt		
	<i>Corymbia</i>	<i>polycarpa</i>	T	F	Tt		

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Corymbia</i>	<i>setosa</i> subsp. <i>Indeterminate</i>		T	F	Tt	
	<i>Ficus</i>	<i>scobina</i>		T	F	Tt	
	<i>Fimbristylis</i>	<i>denudata</i>	A		PF	Ae	
	<i>Flagellaria</i>	<i>indica</i>		T	F	Tv	
	<i>Gymnanthera</i>	<i>oblonga</i>		T	F	Tv	
	<i>Hydrilla</i>	<i>verticillata</i>	A		P	Ahe	
	<i>Hymenachne</i>	<i>acutigluma</i>	A		BPS	Age	
	<i>Actinoscirpus</i>	<i>grossa</i>	A		BS	Ae	
	<i>Leersia</i>	<i>hexandra</i>	A		BS	Age/b	
	<i>Lemna</i>	<i>aequinoctialis</i>	A		BPS	Ahb	
	<i>Lemna</i>	<i>terera</i>	A		BPS	Ahb	
	<i>Lepironia</i>	<i>articulata</i>	A		B	Ae	
	<i>Livistoma</i>	<i>benthamii</i>	A	T	PFS	A/Tp	
	<i>Lophostemon</i>	<i>lactifluus</i>	T	F	Tt		
	<i>Ludwigia</i>	<i>adscendens</i>	A		BP	Ahe/b	
	<i>Melaleuca</i>	<i>argentea</i>	A	T	P	A/Tt	
	<i>Melaleuca</i>	<i>cajaputi</i> subsp. <i>Indeterminate</i>	A	T	BPF	A/Tt	
	<i>Melaleuca</i>	<i>leucadendra</i>	A	T	BPF	A/Tt	
	<i>Asteromyrtus</i>	<i>symphyocarpa</i>	A	T	F	A/Tt	
	<i>Melaleuca</i>	<i>viridiflora</i>	A	T	PF	A/Tt	
	<i>Merremia</i>	<i>gemella</i> var. <i>splendens</i>	A		PF	Av	
	<i>Mimosa</i>	<i>pigra</i> *	A		PF	Ase	
	<i>Murdannia</i>	<i>graminea</i>	T	F	Th		

Family	Genus	Species	Aquatic Terrestrial Habitat Growth form				
	<i>Nelumbo</i>	<i>nucifera</i>	A	BPS	Ahe		
	<i>Nymphaeoides</i>	<i>indica</i>	A	BP	Ahf		
	<i>Pandanus</i>	<i>aquaticus</i>	A	BP	At		
	<i>Pandanus</i>	<i>spiralis</i>	T	F	Tt		
	<i>Panicum</i>	<i>pallidostylum</i>	A	BP	Age		
	<i>Paspalum</i>	<i>scrobiculatum</i>	A	T	F	A/Tge	
	<i>Passiflora</i>	<i>foetida</i> *	T	F	Tv		
	<i>Philydrum</i>	<i>lanuginosum</i>	A	F	Ahe		
	<i>Phragmites</i>	<i>vallatoria</i>	A	P	Age		
	<i>Phyllanthus</i>	<i>reticulatus</i>	A	F	Ase		
	<i>Phyllanthus</i>	<i>virgatus</i>	T	F	Th		
	<i>Platyzoma</i>	<i>microphyllum</i>	T	F	Th		
	<i>Polygonum</i>	<i>attenuata</i> subsp. <i>Attenuata</i>	A	BPS	Ahe		
	<i>Pseudoraphis</i>	<i>spinescens</i>	A	BPS	Age		
	<i>Salvinia</i>	<i>molesta</i> *	A	BPF	Ahb		
	<i>Schoenoplectus</i>	<i>articulatus</i>	A	P	Ace		
	<i>Sida</i>	<i>acuta</i> *	T	F	Ts		
	<i>Sida</i>	<i>cordifolia</i> *	T	F	Ts		
	<i>Spirodela</i>	<i>polyrhiza</i>	A	BPS	Ahb		
	<i>Stemodia</i>	<i>viscosa</i>	T	F	Th		
	<i>Stylosanthes</i>	<i>hamata</i> *	T	F	Th		
	<i>Syzygium</i>	<i>suborbiculare</i>	T	F	Tt		
	<i>Triumfetta</i>	<i>rhomboidea</i>	T	F	Ts		

Family	Genus	Species		Aquatic Terrestrial Habitat Growth form			
	<i>Urochloa</i>	<i>mutica</i> *	A	BP	Age/b		
	<i>Chrysopogon</i>	<i>oliganthus</i>	T	F	Tg		
	<i>Vitex</i>	<i>glabrata</i>	T	F	Tt		
	<i>Xanthostemon</i>	<i>eucalyptoides</i>	T	F	Tt		
<b>Geophytic perennial</b>							
	<i>Apogoneton</i>	<i>euryspermus/vanbruggerii</i>	A	F	Ahs		
	<i>Crinum</i>	<i>asiaticum</i>	A	T	F	A/Th	
	<i>Crinum</i>	<i>uniflorum</i>	A	T	F	A/Th	
	<i>Drosera</i>	<i>burmanni</i>	T	F	Th		
	<i>Drosera</i>	<i>indica</i>	T	F	Th		
	<i>Eleocharis</i>	<i>brassii</i>	BP	Ace			
	<i>Eleocharis</i>	<i> dulcis</i>	A	BPS	Ace		
	<i>Eleocharis</i>	<i>sphaecelata</i>	A	BP	Ace		
	<i>Nymphaea</i>	<i>hastifolia</i>	A	PFS	Ahf		
	<i>Nymphaea</i>	<i>macrosterna</i>	A	BPS	Ahf		
	<i>Nymphaea</i>	<i>nouchali</i>	A	FS	Ahf		
	<i>Nymphaea</i>	<i>pubescens</i>	A	BP	Ahf	Total = 219 species	
	<i>Nymphaea</i>	<i>violacea</i>	A	BPS	Ahf		
	<i>Sowieraea</i>	<i>allacea</i>	T	F	Th		

## Appendix 4 Magela Creek microinvertebrate fauna

Family	Genus	Species	body length (mm)	body width (mm)
CLADOCERA				
Sididae	<i>Diaphanosoma</i>	<i>excisum</i>	0.923	0.415
		<i>sarsi</i>		
	<i>Pseudosida</i>	<i>bidentata</i>	1.323	0.662
	<i>Sarsiatora</i>	<i>papuana</i>	1.492	0.769
	<i>Latonopsis</i>	<i>australis</i>	1.000	0.462
	<i>Latonopsis</i>	<i>brehmi</i>		
Bosminidae	<i>Bosminopsis</i>	<i>deitersi</i>	0.420	0.279
	<i>Bosmina</i>	<i>meridionalis</i>		
Chydoridae	<i>Alonella</i>	<i>clathrata</i>	0.240	0.17
	<i>Chydorus</i>	<i>eurynotus</i>	0.333	0.261
	<i>Chydorus</i>	<i>cf. opacus</i>	0.351	0.327
	<i>Ephemeroporus</i>	<i>barroisi</i>	0.273	0.212
	<i>Durhvedia</i>	<i>crassa</i>	0.480	0.34
	<i>Australochydorus</i>	<i>aporus</i>	0.491	0.364
	<i>Dadaya</i>	<i>macrops</i>	0.340	0.26
	<i>Leydigia</i>	<i>acanthocercoides</i>	0.552	0.37
	<i>Graptoleberis</i>	<i>testudinaria</i>	0.485	0.248
	<i>Alona</i>	<i>sp. near costata</i>	0.479	0.25
	<i>Alona</i>	<i>sp. near cambouei</i>	0.117	0.07
	<i>Alona</i>	<i>monacantha</i>	0.364	0.23
	<i>Alona</i>	<i>davidii</i>	0.406	0.327

Family	Genus	Species	body length (mm)	body width (mm)
Kurzidae	<i>Kurzia</i>	<i>longirostris</i>	0.564	0.391
Campocercidae	<i>Campocercus</i>	<i>australis</i>	0.783	0.461
Euryalona	<i>Euryalona</i>	<i>orientalis</i>		
Notoalona	<i>Notoalona</i>	<i>globulosa australiensis</i>	0.406	0.333
Alona	<i>Alona</i>	<i>macrocopa</i>	0.388	0.236
Karualona	<i>Karualona</i>	<i>karua</i>	0.388	0.242
Alona	<i>Alona</i>	<i>rigidicaudis</i>	0.323	0.219
Alona	<i>Alona</i>	<i>verrucosa</i>	0.394	0.239
Alona	<i>Alona</i>	<i>kendallensis</i>	0.826	0.461
Oxyurella	<i>Oxyurella</i>	<i>singalensis</i>	0.435	0.253
Moinidae	<i>Moina</i>	<i>micura</i>	0.969	0.538
Moinidae	<i>Moina</i>	<i>australiensis</i>	1.000	0.646
Macrothricidae	<i>Macrothrix</i>	<i>macleayi</i>		
	<i>Ilyocryptus</i>	<i>smilnovi</i>		
	<i>Ilyocryptus</i>	<i>brevidentatis</i>		
	<i>Ilyocryptus</i>	<i>timansi</i>	1.385	1.077
	<i>Striblocerus</i>	<i>serricaudatus</i>	0.339	242
	<i>Macrothrix</i>	<i>spinosa</i>	0.350	0.244
	<i>Macrothrix</i>	<i>hystrix</i>		
	<i>Macrothrix</i>	<i>breviseta</i>		
	<i>Macrothrix</i>	<i>capensis</i>		
	<i>Macrothrix</i>	<i>triserialis</i>	0.636	0.412
	<i>Macrothrix</i>	<i>williamsi</i>		

Family	Genus	Species	body length (mm)	body width (mm)
Daphniidae	<i>Scapholeberis</i>	<i>kingi</i>	0.520	0.32
	<i>Ceriodaphnia</i>	<i>cornuta</i>	0.450	0.3
	<i>Ceriodaphnia</i>	<i>laticaudata</i>		
	<i>Ceriodaphnia</i>	<i>dubia</i>		
	<i>Simocephalus</i>	<i>heilongjiangensis</i>		
	<i>Simocephalus</i>	<i>vetulus</i>	1.508	1
	<i>Simocephalus</i>	<i>serulatus</i>		
	<i>Simocephalus</i>	<i>acutirostratus</i>		
<hr/>				
COPEPODA				
Calanoida	<i>Eodiaptomus</i>	<i>lumholtzi</i>	1.308	0.385
	<i>Tropodiaptomus</i>	<i>australis</i>		
	<i>Calamoecia</i>	<i>ultima</i>	1.000	0.185
Cyclopoida	<i>Mesocyclops</i>	sp. Nov		
	<i>Thermocyclops</i>	<i>decipliens</i>		
	<i>Thermocyclops</i>	<i>hyalinus</i>		
	<i>Mesocyclops</i>	<i>aspericornis</i>		
	<i>Mesocyclops</i>	<i>kieferi</i> ?? Needs taxonomic verification using a specimen	0.862	0.323
	<i>Apocyclops</i>	<i>dengizicus</i>		
	<i>Microcyclaps</i>	<i>varicans</i>	0.692	0.246
	<i>Chlorohydra</i>	<i>viridisima</i>		

gaps in data where no diagram available for measurement

**TM 18 Juli 1986**

**taxonomy checked by R Shiel Adelaide University**

Family	Genus	Species	body length (mm)	body width (mm)
ROTIFERS				
Superorder Bdelloidea				
	<i>Dissotrocha</i>	<i>aculeata</i>		
	<i>Dissotrocha</i>	<i>macrosty/a</i>		
	<i>Bdelloida</i>	indet		
Superorder Monogononta				
Order Ploimidae				
Family Epiphaniidae	<i>Epiphanes</i>	<i>clavulata</i>	520.000	520
Family Brachionidae				
	<i>Playyas</i>	<i>quadricornis</i>	576.000	576
	<i>Brachionus</i>	<i>angularis</i>		
	<i>Brachionus</i>	<i>testudinarius</i>		
	<i>Brachionus</i>	<i>budapestensis</i>	115.000	200
	<i>Brachionus</i>	<i>dichotomus dichotomus</i>		

Family	Genus	Species	body length (mm)	body width (mm)
	<i>Brachionus</i>	<i>dichotomus reductus</i>		
	<i>Brachionus</i>	<i>falcatus falcatus</i>	195.000	430
	<i>Brachionus</i>	<i>falcatus Zach. F. reductus</i>		
	<i>Brachionus</i>	<i>lyraeus</i>		
	<i>Brachionus</i>	<i>quadridentatus melheni</i>	424.000	424
	<i>Brachionus</i>	<i>urceolaris sericus</i>	120.000	120
	<i>Beaufampiella</i>	<i>eudactyloita</i>	420.000	760
	<i>Anuraeopsis</i>	<i>coelata coelata</i>	80.000	118
	<i>Anuraeopsis</i>	<i>navicula</i>	70.000	110
	<i>Keratella</i>	<i>tropica tropica</i>		
Family Collurellidae				
	<i>Collurilla</i>	<i>obtusa</i>	60.000	60
	<i>Lepadella</i>	<i>latusinus latusinus</i>	80.000	92
	<i>Lepadella</i>	<i>patella patella</i>	120.000	145
	<i>Lepadella</i>	<i>patella n.f.</i>		
	<i>Lepadella</i>	<i>rhomboides</i>	110.000	120
Family Lecanidae				
	<i>Lecane</i>	<i>bulla bulla</i>	100.000	133
	<i>Lecane</i>	<i>closterocerca closterocerca</i>	54.000	85
	<i>Lecane</i>	<i>curvicornis curvicornis</i>	110.000	120
	<i>Lecane</i>	<i>hamata hamata</i>	61.000	88
	<i>Lecane</i>	<i>doryssa</i>	58.000	58
	<i>Lecane</i>	<i>ludwigi</i>	104.000	121

Family	Genus	Species	body length (mm)	body width (mm)
Family Euchlanidae	<i>Lecane</i>	<i>papuana</i>	92.000	120
	<i>Lecane</i>	<i>pyriformis</i>	51.000	67
	<i>Lecane</i>	<i>quadridentata</i>	105.000	160
	<i>Lecane</i>	<i>scutata</i>	62.000	78
	<i>Lecane</i>	<i>signifera signifera</i>	124.000	135
	<i>Lecane</i>	<i>signifera ploenensis</i>	80.000	185
	<i>Lecane</i>	<i>tenuisetosa</i>	70.000	70
	<i>Lecane</i>	<i>inopinata</i>		
	<i>Diplochlanis</i>	<i>propatula macrodactyla</i>	128.000	244
Family Trichotriidae	<i>Macrochaetus</i>	<i>collinsi</i>	196.000	250
	<i>Macrochaetus</i>	<i>danneeli</i>		
Family Notommatidae	<i>Sciaridium</i>	<i>longicaudum</i>	360.000	450
	<i>Monommata</i>	<i>grandis</i>	350.000	680
	<i>Monommata</i>	<i>indet.</i>		
	<i>Taphrocampa</i>	<i>selenura</i>	220.000	290
	<i>Notommata</i>	<i>copeus</i>	500.000	1100
	<i>Notommata</i>	<i>indet.</i>		
	<i>Reticula</i>	<i>melandocus</i>	210.000	320
	<i>Eosphora</i>	<i>cf. thoides</i>	460.000	510
	<i>Cephalodella</i>	<i>gibba gibba</i>	250.000	450

Family	Genus	Species	body length (mm)	body width (mm)
	<i>Cephalodella</i>	<i>tinca</i>	260.000	280
	<i>Cephalodella</i>	<i>indet.</i>		
Family Trichoceridae				
	<i>Trichocerca</i>	<i>chattoni</i>	490.000	796
	<i>Trichocerca</i>	<i>longiseta</i>	300.000	575
	<i>Trichocerca</i>	<i>pusilla</i>	110.000	175
	<i>Trichocerca</i>	<i>similis similis</i>		
	<i>Trichocerca</i>	<i>stylata</i>	180.000	230
Family Gastropodidae				
	<i>Ascomorpha</i>	<i>saltans saltans</i>	100.000	165
Family Synchaetidae				
	<i>Synchaeta</i>	<i>cf. longipes</i>	164.000	204
	<i>Polyarthra</i>	<i>cf. vulgaris</i>	160.000	220
Family Asplanchnidae				
	<i>Asplanchna</i>	<i>sieboldi</i>	500.000	2500
Family Dicranophoridae				
	<i>Dicranophorus</i>	<i>claviger australiensis</i>	274.000	274
	<i>Dicranophorus</i>	<i>grandis</i>	200.000	450
Order Gnesiotrocha				
Family Testudinellidae				
	<i>Testudinella</i>	<i>patina patina</i>	120.000	350
	<i>Testudinella</i>	<i>tridentata tridentata</i>	120.000	133
	<i>Lacinularia</i>	<i>flosculosa</i>	2000.000	2000

Family	Genus	Species	body length (mm)	body width (mm)
	<i>Octotrocha</i>	<i>speciosa</i>	2000.000	2000
Family Conochilidae	<i>Conochilus</i>	<i>dossuarius</i>	200.000	250
	<i>Conochilus</i>	<i>unicornis</i>	250.000	1300
Family Hexarthridae	<i>Hexarthra</i>	<i>intermedia</i>	90.000	245
	<i>Hexarthra</i>	<i>mira</i>	160.000	400
Family Filiniidae	<i>Filina</i>	<i>australiensis</i>		
	<i>Filina</i>	<i>longiseta limnerica</i>	150.000	200
	<i>Filina</i>	<i>opoliensis</i>	150.000	204
	<i>Filina</i>	<i>passa</i>	180.000	224
	<i>Filina</i>	<i>pejleri</i>	140.000	200

## Appendix 5 Magela Creek macroinvertebrate fauna

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
COLEOPTERA								
	Dytiscidae	<i>Antiporus OSS4L</i>						
	Dytiscidae	<i>Batractomatus wingi</i> (A)						
	Dytiscidae	<i>Cybister OSS1L</i>						
	Dytiscidae	<i>OSS6L</i>						
	Dytiscidae	<i>Tiporus nr josephini</i> (A)						
	Dytiscidae	indet. (L)						
	Dytiscidae L							
	Dytiscidae A							
	Dytiscidae							
	Elmidae	<i>Austrolimnius</i> sp2A (L)*						
	Elmidae	<i>Austrolimnius</i> sp2B (L)*						
	Elmidae	<i>Austrolimnius</i> sp4 (L)*						
	Elmidae	<i>Austrolimnius</i> sp9 (L)*						
	Elmidae	<i>Austrolimnius</i> indet. (A)						
	Elmidae	<i>Austrolimnius</i> indet. (L)						
	Elmidae	Genus E sp74E (L)*						

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
	<b>Elmidae L</b>							
	<b>Elmidae A</b>							
	<b>Elmidae</b>							
	<b>Halipidae</b>	OSS1L						
	<b>Hydrophilidae</b>	OSS1L						
	<b>Noteidae</b>	<i>Hydrocophus subfasciatus</i> (A)						
DIPTERA	Ceratopogonidae	OSS1L						
	Ceratopogonidae	OSS2L						
	Ceratopogonidae	OSS3L						
	Ceratopogonidae	OSS5L						
	Ceratopogonidae	OSS6L						
	Ceratopogonidae	OSS8L						
	Ceratopogonidae	OSS9L						
	Ceratopogonidae	OSS10L						
	Ceratopogonidae	OSS12L						
	Ceratopogonidae	indet.						

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
<b>Ceratopogonidae</b>								
Chironomidae	<i>Ablabesmyia notabilis</i>							
Chironomidae	<i>Ablabesmyia</i> indet.							
Chironomidae	<i>Chironomus</i> indet.							
Chironomidae	<i>Cladotanytarsus</i> indet.							
Chironomidae	<i>Conochironomus</i> indet.							
Chironomidae	<i>Cricotopus albifarvis</i>							
Chironomidae	<i>Cricotopus brevicornis</i>							
Chironomidae	<i>Cricotopus</i> indet.							
Chironomidae	<i>Cyprochironomus griseidorsum</i>							
Chironomidae	<i>Cryptochironomus</i> indet.							
Chironomidae	<i>Dicrotendipes lindae</i>							
Chironomidae	<i>Dicrotendipes</i> indet.							
Chironomidae	<i>Djalmbatista</i> indet.							
Chironomidae	<i>Kiefferulus trinctus</i>							
Chironomidae	<i>Kiefferulus</i> indet.							
Chironomidae	<i>Larsia albiceps</i>							
Chironomidae	<i>Nanocladius OSS1L</i>							
Chironomidae	<i>Nilotanypus</i> indet.							
Chironomidae	<i>Parametriocnus nr ornaticornis</i>							
Chironomidae	<i>Paratanypytarsus</i> indet.							

size range of larvae of family  
Chironomidae is up tp 20 mm (Hawking &  
Smith 1997)

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
Chironomidae		<i>Paratendipes</i> indet.						
Chironomidae		<i>Polyphemidium leei</i>						
Chironomidae		<i>Polyphemidium nubifer</i>						
Chironomidae		<i>Polyphemidium watsoni</i>						
Chironomidae		<i>Polyphemidium</i> indet.						
Chironomidae		<i>Procladius paludicola</i>						
Chironomidae		<i>Rheocricotopus</i> indet.						
Chironomidae		<i>Rheotanytarsus</i> indet.						
Chironomidae		<i>Robackia</i> indet.						
Chironomidae		<i>Stempellina</i> indet.						
Chironomidae		<i>Stenochironomus</i> indet.						
Chironomidae		<i>Stictochironomus</i> indet.						
Chironomidae		<i>Tanytarsus</i> indet.						
Chironomidae		<i>Thienemanniella</i> spA##						
Chironomidae		<i>Thienemanniella</i> indet.						
Chironomidae		<i>Thienemanniella</i> indet.						
Chironomidae		<i>Chironominae</i> (subfamily) indet.						
Chironomidae		<i>Orthocladiinae</i> (subfamily) indet.						
Chironomidae		<i>Tanypodinae</i> (subfamily) indet.						
Chironomidae		indet. (L)						
Chironomidae		indet. (P)						
		<b>Chironomidae</b>						

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
Simuliidae	<i>Simulium papuense</i> (?)							
Simuliidae	<i>Simulium</i> indet.							
Simuliidae	indet. (L)							
Simuliidae	indet. (P)							
Simuliidae								
Tabanidae	<i>Tabanus</i> indet.							
Tabanidae	indet.							
Tabanidae								
Tipulidae	OSS1L							
Tipulidae	OSS4L							
Tipulidae	indet.							
Tipulidae								
EPHEMEROPTERA								
Baetidae	<i>Baetis</i> sp1**		3.8		3		3.6	
Baetidae	<i>Baetis</i> indet.							
Baetidae	<i>Centropilum OSS1N</i>	3.8		4.5		4.5		5.4
Baetidae	<i>Cloeon fluviatile</i>	4.6		5.7				
Baetidae	Genus B sp1**	3.8		4.6		5		5.8
Baetidae	Genus B indet.							

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
Baetidae	Baetidae	Genus C indet.	4.5	7.3				
Baetidae	Baetidae	indet.						
Caenidae	Baetidae							
Caenidae	Tasmanocoenis arcuata	2.7	3.1	3	5.4			
Caenidae	<i>Tasmanocoenis</i> spD**	1.9	2.3	2.1	2.8			
Caenidae	<i>Tasmanocoenis</i> spE**		3	2.5	3			
Caenidae	<i>Tasmanocoenis</i> spH**	1.7	2.2	2.2	2.5			
Caenidae	<i>Tasmanocoenis</i> spJ**		2.5	2.6	3.2			
Caenidae	<i>Tasmanocoenis</i> indet.							
Caenidae	<i>Wundacaenis</i> <i>dostini</i>							
Caenidae	indet.							
Caenidae								
Leptophlebiidae	<i>Thraulus</i> indet.	5	6	5.4	6.4			
Leptophlebiidae	indet.	5	7					
Leptophlebiidae								
HEMIPTERA								
Corixidae	<i>Micronecta</i> indet.							
Mesoveliidae	indet.							
LEPIDOPTERA								
Pyralidae	OSS1L							
Pyralidae	OSS2L							

size range for adult Corixidae is 5-10 mm  
(Hawking & Smith 1997)  
size range for adult Mesovelidae is up to 5 mm mm (Hawking & Smith 1997)

18-26 mm for larval Pyralidae (Hawking & Smith 1997)

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
	Pyralidae	OSS9L						
	Pyralidae	OSS10L						
	Pyralidae	indet.						
	Pyralidae							
ODONATA								
	Coenagrionidae	<i>Austrocnemis maccullochi</i>	9	9.4				
	Coenagrionidae	indet.						
	Coenagrionidae							
	Corduliidae	<i>Hemicordulia intermedia</i>						
	Gomphidae	<i>Antipodogomphus neophytus</i>						
	Gomphidae	<i>Antipodogomphus</i> indet.						
	Gomphidae	<i>Austrogomphus mjobergi</i>	15.3					
	Gomphidae	<i>Austrogomphus</i> indet.						
	Gomphidae							
	Libellulidae	<i>Diplacodes haematodes</i>	12					
	Libellulidae	<i>Nannoplebia</i> indet.						
	Libellulidae	<i>Orthetrum caledonicum</i>	14					
	Libellulidae	indet.	20					
	Libellulidae							
	Anisoptera (suborder)							
	Zygoptera (suborder)							

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
<b>TRICHOPTERA</b>								
	<a href="#">Calamoceratidae</a>	<i>Anisocentropus muricatus</i>						
	Economidae	<i>Economira</i> indet.						
	Economidae	<i>Economus</i> indet.						
	Economidae	indet.						
	<a href="#">Economidae</a>							
	Hydropsychidae	<i>Asmicridea</i> sp3#						
	Hydropsychidae	<i>Chematopsyche kakaduensis</i>						
	Hydropsychidae	<i>Cheumatopsyche suteri</i>						
	Hydropsychidae	<i>Cheumatopsyche wellsae</i>						
	Hydropsychidae	<i>Cheumatopsyche</i> indet.						
	<a href="#">Hydropsychidae</a>							
	Hydroptilidae	<i>Hellyethira cubitans</i> (L)						
	Hydroptilidae	<i>Hellyethira forficata</i> (L)						
	Hydroptilidae	<i>Hellyethira forficata</i> (P)						
	Hydroptilidae	<i>Hellyethira</i> indet. (L)						
	<a href="#">Hydroptilidae</a>							
	Hydroptilidae	<i>Hellyethira ramosa</i> (L)						
	Hydroptilidae	<i>Hellyethira ramosa</i> (P)						
	Hydroptilidae	<i>Hellyethira vernoni</i> (L)						
size range for larval Economidae = up to 10 mm (Hawking & Smith 1997)								
size range for larval Hydropsychidae = up to 25 mm (Hawking & Smith 1997)								
size range for larval Hydroptilidae = up to 6.2 mm (Hawking & Smith 1997)								

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
	Hydroptilidae	<i>Oxyethira</i> indet. (L)						
	Hydroptilidae	<i>Orthotrichia turrita</i>						
	Hydroptilidae	<i>Orthotrichia</i> indet. (L)						
	Hydroptilidae	<i>Orthotrichia</i> indet. (P)						
	Hydroptilidae	indet. (L)						
	Hydroptilidae	indet. (P)						
	Hydroptilidae							
	Leptoceridae	<i>Leptonussa</i> indet.						
	Leptoceridae	<i>Oecetis epekeina</i>						
	Leptoceridae	<i>Oecetis</i> spA#						
	Leptoceridae	<i>Oecetis</i> spE#						
	Leptoceridae	<i>Oecetis</i> indet.						
	Leptoceridae	<i>Triaenodes</i> indet.						
	Leptoceridae	indet.						
	Triplectides	<i>ciuskus</i>						
	Triplectides	indet.						
	Leptoceridae							
	Philopotamidae	<i>Chimarra</i> spB #						
	Polycentropodidae	indet.						

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
<b>ACARINA</b>								
	Hydryphantidae	indet.						
	Hygrobatidae	<i>Australicobates</i> indet.						
	Hygrobatidae	indet.						
	Limnesiidae	indet.						
	Mideopsidae	indet.						
	Oribatida (suborder)	indet.						
	Oxidae	indet.						
	Torrenticolidae	indet.						
	Unionicolidae	indet.						
		indet.						
<b>ACARINA</b>								
<b>DECAPODA</b>								
	Atyidae	<i>Cardina gracilirostris</i>						
	Atyidae	<i>Cardinides wilkinsi</i>						
	Atyidae	indet.						
	Atyidae	<i>Macrobrachium bullatum</i>						
	Palaemonidae	<i>Macrobrachium rosenbergi</i>						
	Palaemonidae	<i>Macrobrachium</i> indet.						

size range for adult Oxidae = up to 1.1 mm (Hawking & Smith 1997)

75  
320  
NA

Order/Class	Family	Genus and species	Imago min length (mm)	Imago max length (mm)	Nymph min mm	Nymph max mm	adult min. mm	adult max. mm
	Palaemonidae	indet.						
	<a href="#">Palaemonidae</a>							
GASTROPODA	Planorbidae	<i>Amerianna</i> indet.						
	<a href="#">NEOMORPHIDA</a>	indet.						
OLIGOCHAETA	Enchytraeidae	indet.						
	Naididae	indet.						
	Tubificidae	indet.						
	Magadrii (superorder)	indet.						
	Oligochaete	indet.						
		indet = indeterminate						
		* Glaister 1991			# Wells 1991			
		** Suter 1992			## Cranston 1991			
		N/A not available						

size range for Tubificidae = up to 40 mm  
(Hawking & Smith 1997)

indet = indeterminate  
 \* Glaister 1991  
 \*\* Suter 1992  
 ## Cranston 1991  
 N/A not available

^measurements taken from Williams 1995 & will require specific measurements from Magela Creek samples

data from Ruth O'Connor species list for Magela Creek (pers comm)

## Appendix 6 Magela Creek fish

Family	Species	common name	body size min (cm)	body size max (cm)
Megalopidae	<i>Megalops cyprinoides</i>	Tarpon	20-50cm	20
Clupeidae	<i>Nematalosa erebi</i>	Bony bream	20-30cm	20
Osteoglossidae	<i>Scleropages jardini</i>	Saratoga	50-70cm	50
Ariidae	<i>Arius leptaspis</i>	Salmon catfish (Fork-tailed catfish)	30-40	30
Piscesidae	<i>Neosilurus ater</i>	Black catfish	30cm	30
	<i>Neosilurus hyrtii</i>	Hyrtl's catfish	10-20cm	10
	<i>Porochilus rendahlii</i>	Rendahl's catfish	8-18cm	8
Belonidae	<i>Strongylura krefftii</i>	Longtom	30-40	30
Melanotaeniidae	<i>Melanotaenia nigrans</i>	Black-banded rainbowfish	2-4cm	2
	<i>Melanotaenia splendida inornata</i>	Chequered rainbowfish	2-5cm	2
Pseudomugilidae	<i>Pseudomugil gertrudae</i>	Spotted blue-eye	2-3cm	2
	<i>Pseudomugil tenellus</i>	Delicate blue-eye	2-3cm	2
Atherinidae	<i>Craterocephalus sternusmuscarum</i>	Fly-spotted hardyhead	3-4cm	3
	<i>Craterocephalus marianae</i>	Mariana's hardyhead	4cm	2
Synbranchidae	<i>Ophisternon guttulare</i>	One-gilled eel	60cm	60
Centropomidae	<i>Lates calcarifer</i>	Barramundi	60-70cm	60
Ambassidae	<i>Ambassis agrammus</i>	Sailfin glassfish	3-4cm	3
	<i>Ambassis macleayi</i>	Reticulated glassfish	10cm	10
	<i>Denariusa bandata</i>	Penny fish	2-3cm	2
Terapontidae	<i>Amniataba percoidea</i>	Banded grunter	9-10cm	9
	<i>Hephaestus fuliginosus</i>	Sooty grunter	20cm	20
	<i>Leiopotherapon unicolor</i>	Spangled grunter	10cm	10

Family	Species	common name	body size min (cm)	body size max (cm)
	<i>Syncomistes butleri</i>	Sharp-nosed grunter	20-25cm	20
	<i>Pingalla midgleyi</i>	Midgely's grunter	8-14cm	8
Apogonidae	<i>Glossamia aprion</i>	Mouth almighty	10-20cm	10
Toxotidae	<i>Toxotes chatareus</i>	Common archer fish	8-12cm	8
Mugilidae	<i>Liza alata</i>	Ord River mullet (Diamond mullet)	35-45cm	35
Gobiidae	<i>Glossobius aureus</i>	Golden goby	14cm	14
	<i>Glossobius giurus</i>	Flathead goby	8-12cm	8
Eleotrididae	<i>Hypseleotris compressa</i>	Empire gudgeon (carp gudgeon)	5cm	5
	<i>Oxyeleotris lineolata</i>	Sleepy cod	30cm	30
	<i>Oxyeleotris nullipora</i>	Dwarf gudgeon	3cm	3
	<i>Oxyeleotris sellheimi</i>	Black-banded gudgeon	5-10cm	5
	<i>Mogurnda mogurnda</i>	Purple-spotted gudgeon	5-10cm	10

Bishop et al 2001

Walden & Pidgeon 1998

## Appendix 7 Magela Creek amphibians

Family	Species	common name	body size	male min (mm)	male max (mm)	female min	female max
Myobatrachidae	<i>Crinia bilineata</i>	Bilingual frog (Ratchet frog)	2cm	16	23	17	20
	<i>Limnodynastes conveziusculus</i>	Marbled frog	5.5cm	46	50	52	61
	<i>Limnodynastes ornatus</i>	Omata burrowing frog	4.5cm	29	37	35	42
	<i>Notaden melanoscaphus</i>	Northern spadefoot toad	5.5cm	34	48	45	49
	<i>Uperoleia inundata</i>	Floodplain toadlet	2.5cm	23	28	24	30
Hylidae	<i>Cyclorana australis</i>	Giant frog	1.cm	71	79	71	105
	<i>Cyclorana longipes</i>	Long-footed frog	5.5cm	38	46	36	55
	<i>Litoria bicolor</i>	Northern dwarf tree-frog	3cm	23	27	25	29
	<i>Litoria caerulea</i>	Green tree-frog	10cm	66	77	60	110
	<i>Litoria dahlii</i>	Dahl's aquatic frog	7cm	49	63	59	71
	<i>Litoria inermis</i>	Peter's frog	3.5cm	24	33	30	37
	<i>Litoria dorsalis</i>	Javelin frog (dwarf rocket frog)	2cm	14	16	15	16
	<i>Litoria nasuta</i>	Rocket frog	5cm	33	45	36	55
	<i>Litoria pallida</i>	Pale frog	3.5cm	27	34	31	37
	<i>Litoria rothi</i>	Brown tree-frog (Roth's tree-frog) 5.5cm	37	48	45	45	57
	<i>Litoria rubella</i>	Desert tree-frog (Red tree-frog)	3.5cm	28	37	34	43
	<i>Litoria tornieri</i>	Tornier's frog	3.5cm	28	36	27	34
	<i>Litoria wotjulumensis</i>	Wotjulum frog	7.5cm	33	38	45	70
Microhylidae	<i>Sphenophryne adelphus</i>	Northern Territory frog	2cm	17	19	19	22
	<i>Bufo marinus</i>	cane toad		75	110	90	250

Family	Species	common name	body size	male min (mm)	male max (mm)	female min	female max
Rock-dwelling species							
	<i>Litoria coplandi</i>	Copland's rock frog	29	36	39	42	
	<i>Litoria meiriana</i>	Rockhole frog	16	20	18	21	
	<i>Litoria personata</i>	Masked frog	28	29	31	33	
	<i>Uperoleia arenicola</i>	Jabiru toadlet	18	23	NA	NA	
	<i>Megistopholotis lignarius</i>	Woodworker frog	43	62	47	61	

NA=no available data

Barker et al 1995 A Field Guide to Australian Frogs

## Appendix 8 Magela Creek reptiles

Family	Species	common name	body size	min (cm)	max (cm)
Crocodylidae	<i>Crocodylus johnstoni</i> *	Freshwater crocodile	300cm	300	300
	<i>Crocodylus porosus</i> *	Estuarine crocodile	500-700cm	500	700
	<i>Cheioldina rugosa</i> *	Northern snake-necked turtle	40cm (shell length)	40	40
	<i>Cheioldina</i> sp. Nov*	?			
Agamidae	<i>Eiseya dentata</i> *	Northern snapping turtle	35cm (shell length)	35	35
	<i>Eiseya latisternum</i> *	Saw-shelled turtle	20cm (shell length)	20	20
	<i>Emydura victoriae</i> (=australis)*	Northern yellow-faced turtle	30cm (shell length)	30	30
	<i>Ctenophorus caudicinctus</i>	Ring-tailed dragon	10cm (snout-vent length)	10	10
	<i>Chelosonia brunnea</i>	Chameleon dragon	9cm (snout-vent length)	9	9
	<i>Chlamydosaurus kingii</i>	Frillneck	22cm (snout-vent length)	22	22
	<i>Diporiphora bilineata</i>	Two-lined dragon	10cm (snout-vent length)	10	10
	<i>Lophognathus gilberti</i>		10cm (snout-vent length)	10	10
	<i>Diplodactylus ciliaris</i>	Spiny-tailed gecko	8.5cm (snout-vent length)	8.5	8.5
	<i>Gehyra australis</i>	Northern Dtella	7cm (snout-vent length)	7	7
Gekkonidae	<i>Gehyra nana</i>		5cm (snout-vent length)	5	5
	<i>Gehyra pamela</i>		7cm (snout-vent length)	7	7
	<i>Heteronotia binoei</i>	Bynoe's gecko	5cm (snout-vent length)	5	5
	<i>Nephrurus asper</i>		10cm (snout-vent length)	10	10
	<i>Oedura gemmata</i>		10cm (snout-vent length)	10	10
	<i>Oedura marmorata</i>	Marbled velvet gecko	9cm (snout-vent length)	9	9
	<i>Oedura rhombifer</i>		8cm (snout-vent length)	8	8
	<i>Pseudoechidnacaudata lindneri</i>	Giant cave gecko	10cm (snout-vent length)	10	10

Family	Species	common name	body size	min (cm)	max (cm)
Pygoponidae	<i>Delma borea</i>		8cm (snout-vent length)	8	8
	<i>Lialis burtonis</i>	Burton's snake lizard	25cm (snout-vent length)	25	25
Scincidae	<i>Carlia amax</i>		3.5cm (snout-vent length)	3.5	3.5
	<i>Carlia gracilis</i>		3.5cm (snout-vent length)	3.5	3.5
	<i>Carlia triacantha</i>		4.5cm (snout-vent length)	4.5	4.5
	<i>Cryptoblepharus plagioccephalus</i>		4.5cm (snout-vent length)	4.5	4.5
	<i>Ctenotus armhemensis</i>		5.5cm (snout-vent length)	5.5	5.5
	<i>Ctenotus borealis</i>		11.5cm (snout-vent length)	11.5	11.5
	<i>Ctenotus coggeri</i>		8cm (snout-vent length)	8	8
	<i>Ctenotus essingtonii</i>		6cm (snout-vent length)	6	6
	<i>Ctenotus gagadju</i>		5cm (snout-vent length)	5	5
	<i>Ctenotus inornatus</i>		9cm (snout-vent length)	9	9
	<i>Ctenotus storri</i>		4cm (snout-vent length)	4	4
	<i>Ctenotus verebraalis</i>		5.5cm (snout-vent length)	5.5	5.5
	<i>Egernia frerei</i>		18cm (snout-vent length _	18	18
	<i>Menettia alanae</i>		2.5cm (snout-vent length)	2.5	2.5
	<i>Menettia concinna</i>		3cm (snout-vent length)	3	3
	<i>Menettia greyii</i>		3cm (snout-vent length)	3	3
	<i>Morethia ruficauda</i>		3.5cm (snout-vent length)	3.5	3.5
	<i>Morethia storri</i>		3.5cm (snout-vent length)	3.5	3.5
	<i>Notoscincus ornatus wojululum</i>		3cm (snout-vent length)	3	3
	<i>Probablepharus tenuis</i>		3cm (snout-vent length)	3	3
	<i>Glaophyromorphus darwiniensis</i>		5.5cm (snout-vent length)	5.5	5.5

Family	Species	common name	body size	min (cm)	max (cm)
	<i>Glaophyromorphus isolepis</i>		7cm (snout-vent length)	7	7
	<i>Tiliqua scincoides</i>	Eastern blue-tongued lizard	30cm (snout-vent length)	30	30
Varanidae	<i>Varanus baritji</i>		60cm (total length)	60	60
	<i>Varanus gouldii*</i>	Sand goanna (Gould's goanna)	160cm	160	160
	<i>Varanus mertensi*</i>	Merten's water monitor	100cm	100	100
	<i>Varanus mitchelli*</i>	Mitchell's water monitor	60cm	60	60
	<i>Varanus panoptes*</i>	Northern sand goanna	120cm	120	120
	<i>Varanus timorensis</i>	Spotted tree monitor	60cm (total length)	60	60
	<i>Varanus tristis</i>		80cm (total length)	80	80
Acrochordidae	<i>Acrochordus arafureae*</i>	Filesnake	250cm	250	250
Boidae	<i>Liasis childreni</i>	Children's python	75-100cm	75	100
	<i>Liasis fuscus*</i>	Water python	200-300cm	200	300
	<i>Liasis olivaceus*</i>	Olive python	400cm	400	400
	<i>Morelia oenpelliensis</i>	Oenpelli python	200cm	200	200
	<i>Morelia spilota</i>	Carpet and diamond pythons	200-400cm	200	400
	<i>Boiga irregularis</i>	Brown tree snake	140-200cm	140	200
Colubridae	<i>Dendrelaphis punctulata</i>	Common tree snake	120-200cm	120	200
	<i>Enhydris polylepis*</i>	Macleay's water snake	60-80cm	60	80
	<i>Stegonotus cucullatus*</i>	Slaty-grey snake	130cm	130	130
	<i>Tropidonophis manillae*</i>	Keelback or freshwater snake	50-100cm	50	100
Elapidae	<i>Acanthophis praelongus</i>	Northern death adder	40-70cm	40	70
	<i>Rhinoplocephalus pallidiceps</i>	Northern small-eyed snake	50cm	50	50
	<i>Demansia atra</i>	Black whip snake	100cm	100	100

Family	Species	common name	body size	min (cm)	max (cm)
	<i>Demansia olivacea</i>		80cm (total length)	80	80
	<i>Suta punctata</i>	Little spotted snake	40cm (total length)	40	40
	<i>Pseudechis australis</i> *	King brown snake	200cm	200	200
	<i>Furina ornata</i>	Orange-naped snake	70cm	70	70
	<i>Pseudonaja nuchalis</i>	Western brown snake	150cm	150	150
	<i>Simoselaps semifasciatus</i>	Half-girdled snake	30-40cm	30	40
	<i>Vermicella multifasciata</i>	Northern bandy-bandy	60-100cm	60	100
Typhlopidae	<i>Ramphotyphlops grypus</i>		35-45cm	35	45
	<i>Ramphotyphlops polygrammicus</i>		25-40cm	25	40
	<i>Ramphotyphlops unguirostris</i>		40-70cm	40	70

\* large reptiles present in riparian and floodplain habitats of the Magela Creek system (Finlayson et al 1990a)

HG Cogger 1996. *Reptiles and amphibians of Australia*. Reed Books, Australia. 796 p

## Appendix 9 Magela Creek birds

Family	Species	common name	body size min (cm)	max (cm)
Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian Pelican	150-190cm	150
Anhingidae	<i>Anhinga melanogaster</i>	Darter	86-94cm	86
Phalacrocoracidae	<i>Phalacrocorax melanoleucos</i>	Little Pied Cormorant	58-64cm	58
	<i>Phalacrocorax varius</i>	Pied Cormorant	66-80cm	66
	<i>Phalacrocorax sulcirostris</i>	Little Black Cormorant	58-64cm	58
Ardeidae	<i>Ardea pacifica</i>	White-necked Heron (Pacific heron)	76-106cm	76
	<i>Ardea picata</i>	Pied Heron	43-50cm	43
	<i>Ardeola ibis</i>	Cattle Egret	48-53cm	48
	<i>Ardea alba</i>	Great Egret	76-100cm	76
	<i>Egretta garzetta</i>	Little Egret	56-65cm	56
	<i>Ardea intermedia</i>	Intermediate Egret	56-70cm	56
	<i>Ardea novaehollandiae</i>	White-faced Heron	66	70
	<i>Butorides striatus</i>	Striated Heron	43	51
	<i>Nycticorax caledonicus</i>	Nankeen Night Heron	56-64cm	56
	<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork	140cm	140
Ciconiidae	<i>Plegadis falcinellus</i>	Glossy Ibis	48-61cm	48
Plataleidae	<i>Threskiornis aethiopica</i>	Sacred Ibis	65-76cm	65
	<i>Platalea regia</i>	Straw-necked Ibis	58-76cm	58
	<i>Platalea flavipes</i>	Royal Spoonbill	74-80cm	74
	<i>Anseranus semipalmata</i>	Yellow-billed Spoonbill	76-92cm	76
Anatidae	<i>Aythya australis</i>	Magpie Goose	75-90cm	75
		Hardhead		60

<b>Family</b>	<b>Species</b>	<b>common name</b>	<b>body size</b>	<b>min (cm)</b>	<b>max (cm)</b>
	<i>Dendrocygna arcuata</i>	Wandering Whistling Duck	55-61cm	55	61
	<i>Dendrocygna eytoni</i>	Plumed Whistling Duck	41-62cm	41	62
	<i>Tadorna radjah</i>	Radjah Shelduck (Burdekin Duck)	40-60cm	40	60
	<i>Anas superciliosa</i>	Pacific Black Duck	48-60cm	48	60
	<i>Anas gracilis</i>	Grey Teal	40-46cm	40	46
	<i>Malacorhynchus membranaceus</i>	Pink-eared Duck	38-45cm	38	45
	<i>Nettapus pulchellus</i>	Green Pygmy Goose	34-38cm	34	38
Rallidae	<i>Porzana pusilla</i>	Baillon's Crake	15-16cm	15	16
	<i>Porzana cinerea</i>	White-browed Crake	17-18cm	17	18
	<i>Porphyrio porphyrio</i>	Purple Swamphen	44	44	48
Gruidae	<i>Grus rubicundus</i>	Brolga	70-130cm	70	130
Jacanidae	<i>Irediparra gallinacea</i>	Comb-crested Jacana	20-26cm	20	26
Charadriidae	<i>Vanellus miles</i>	Masked Lapwing	35-38cm	35	38
	<i>Erythrogenys cinctus</i>	Red-kneed Dotterel	17-19cm	17	19
	<i>Elseyornis melanops</i>	Black-fronted Dotterel	16-18cm	16	18
	<i>Himantopus himantopus</i>	Black-winged Stilt	33-38cm	33	38
Recurvirostridae	<i>Numenius minutus</i>	Little Curlew	30-36cm	30	36
Scopopacidae	<i>Tringa stagnatilis</i>	Marsh Sandpiper	22-25cm	22	25
	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	17-21cm	17	21
	<i>Calidris ferruginea</i>	Curlew Sandpiper	20-22cm	20	22
Glareolidae	<i>Stiltia isabella</i>	Australian Pratincole	22-24cm	22	24
Laridae	<i>Chlidonias hybrida</i>	Whiskered Tern	25-27cm	25	27
	<i>Sterna nilotica</i>	Gull-billed Tern	37-43cm	37	43

<b>Family</b>	<b>Species</b>	<b>common name</b>	<b>body size</b>	<b>min (cm)</b>	<b>max (cm)</b>
	<i>Sterna caspia</i>	Caspian Tern		48	55
	<i>Chlidonias leucopterus</i>	White-winged Tern		22	24
Podicipedidae	<i>Tachybaptus novaehollandiae</i>	Australasian Grebe		23	26
Alcedinidae	<i>Alcedo pusilla</i>	Little Kingfisher		11.5	13
	<i>Alcedo azurea</i>	Azure Kingfisher		17	19
Accipitridae	<i>Haliaeetus leucogaster</i>	White-bellied Sea Eagle	70-90cm	70	90

G Pizzey & F Knight 1997. *Field Guide to the Birds of Australia*. HarperCollins Publishers Pty Limited 576 p+B10

## Appendix 10 Magela Creek mammals

Family	Species	common name	body length male (min) cm	male (max) cm	body length female (min) cm	female (max) cm	weight male (min) g	weight male (max) g	weight female (min) g	weight female (max) g	Weight g
Dasyuridae	<i>Dasyurus hallucatus</i>	Northern quoll	12.3	31	12.5	30	400	900	300	300	500
	<i>Antechinus bellus</i>	Fawn antechinus	12.1	14.8	11	13	42	66	26	26	41
	<i>Sminthopsis virginiae</i>	Red-cheeked Dunnart	8.1	12.6	15	80					
	<i>Planigale maculata</i>	Common planigale	7	10	7.1	8.7	6	22	7	7	15
	<i>Planigale ingrami</i>	Long-tailed planigale	5.5	6.3	5.7	6.5	3.9	4.5	4.2	4.2	4.5
Peramelidae	<i>Isoodon macrourus</i>	Northern brown bandicoot	30	47	30	41	500	3100	500	500	1700
Macroponidae	<i>Macropus agilis</i>	Agile wallaby	71.5	85	59.3	72.2	1600	2700	900	900	1500
	<i>Macropus antilopinus</i>	Antilopine wallaroo	96.5	120	77.8	83.5	3000	4900	1600	1600	2000
Muridae	<i>Hydromys chrysogaster</i>	Water rat	23.1	34.5	24.5	37	400	1275	340	340	992
	<i>Melomys burtoni</i>	Grassland melomys	13	14	12.5	13	50	50	65	65	
	<i>Pseudomys rufocaudatus</i>	Western chestnut mouse	80	140			25	25	50	50	
	<i>Pseudomys delicatulus</i>	Delicate mouse	55	75			6	6	15	15	
	<i>Rattus tunneyi</i>	Pale field rat	11.8	19.4			42	42	165	165	
	<i>Rattus colletti</i>	Dusky rat	6.5	21.1					22	22	213
Pteropodidae	<i>Pteropus alecto</i>	Black flying-fox	24	26					500	500	700
	<i>Pteropus scapulatus</i>	Little red flying-fox	19.5	23.5					300	300	600
Emballonuridae	<i>Saccopteryx flaviventris</i>	Yellow-bellied sheathtail-bat	7.6	8.7			30	60	40	40	50
	<i>Saccopteryx saccolaimus</i>	Naked-rumped sheathtail-bat	9	10					12	12	27
	<i>Taphozous georgianus</i>	Common sheathtail-bat	6.7	7.9							
	<i>Taphozous kapalgensis</i>	White-striped sheathtail-bat	7.5	8.5							

Family	Species	common name	body length male (min) cm	male (max) cm	body length female (min) cm	female (max) cm	weight male (min) g	weight male (max) g	weight female (min) g	weight female (max) g
Megadermatidae	<i>Macroderma gigas</i>	Ghost bat	10	13			140	165		
Hipposideridae	<i>Hipposideros ater</i>	Dusty horseshoe-bat	4.5	8.5			8	10		
	<i>Hipposideros diadema</i>	Diadem horseshoe-bat	7.5	8.5			30	50		
	<i>Rhinonictis aurantius</i>	Orange horseshoe-bat	4.5	5.3			8	10		
Molossidae	<i>Chaeorephon jobensis</i>	Northern mastiff-bat	8	9			23	30		
	<i>Mormopterus beccarii</i>	Beccari's mastiff-bat	5.5	6.5			13	19		
Vesperilionidae	<i>Miniopterus schreibersii</i>	Common bentwing-bat	5.2	5.8			13	17		
	<i>Nyctophilus armstrongensis</i>	Arnhem Land long-eared bat	4.3	5.2			6	8		
	<i>Chalinolobus gouldii</i>	Gould's wattled bat	6.5	7.5			10	18		
	<i>Chalinolobus nigriceps</i>	Hoary bat	4.5	5.5			7.5	10		
	<i>Myotis moluccarum</i>	Northern myotis								
	<i>Pipistrellus adamsi</i>	Cape York pipistrelle								
	<i>Pipistrellus westralis</i>	Western pipistrelle								
	<i>Scotorepens sanborni</i>	Northern broad-nosed bat	4.8	5.2			6	8		
	<i>Vespadelus caurinus</i>	Western cave bat								
Canidae	<i>Canis familiaris dingo</i>	Dingo	86	98	88	89	1180	1940	960	1600
Alien species										
	<i>Bos indicus</i>	cattle								
	<i>Bos taurus</i>	cattle								
	<i>Bubalus bubalis</i>	water buffalo								
	<i>Sus scrofa</i>	feral pig								
	<i>Equus asinus</i>	donkey								

<b>Family</b>	<b>Species</b>	<b>common name</b>	<b>body length male (max) cm</b>	<b>body length female (max) cm</b>	<b>weight male (min) g</b>	<b>weight male (max) g</b>	<b>weight female (min) g</b>	<b>Weight female (max) g</b>
	<i>Equus caballus</i>	horse						
	<i>Felis catus</i>	cat						
	<i>Rattus rattus</i>	black rat						

R Strahan ed 1983. The Australian Museum Complete book of Australian Mammals. Angus & Robertson Publishers, 530 p