

Wetland Project Data Summary			
Student Initials: K.P. Student Number: 30178745 Demonstrator Group : A (Wednesday)			
LOCATION DETAILS			
Name of waterbody	Tomato Lake; Belmont		
Longitude		Latitude	
Date of sampling	24/4, 28/4, 1/5, 5/5, 8/5/2004	Season	Autumn
Weather at time of sampling	24/4, 28/4 – fine, sunny, a.a.t. ~22 degrees C at 8.30am 1/5, 5/5 – fine, sunny, cloud approaching; 8/5 – overcast, threatening to rain		
Classification & water regime		Comments	
Category of wetland (Undisturbed, created, urban, agricultural, coloured, saline, acidic, etc)	Urban wetland	Natural wetland but highly modified/disturbed; vegetation almost entirely cleared and much later replanted; previously used as a drain, grow tomatoes; dredging; artificially aerated.	
Semeniuk Vegetation Classification	Bacata form		
Water regime (permanent, seasonal, episodic)	Permanent	Originally seasonal but now kept topped up over summer for aesthetic values and as a refuge for birdlife	
Mean depth of sampling sites (X± SE) (n)	67cm ± 4.0 cm	Range over 5 sites of 50-95cm	
Estimated maximum depth of wetland	~1.5m	Lake over 2.5m deep in winter	
Soil association	Bassendeen sands		
Sediment types	Anoxic	Odiferous gas escapes when pressure is applied	
Water Quality			
Temperature °C	20.5°C		
pH (X± SE) (n)	7.52 ± 0.02	(5 sites)	
conductivity (µS/cm) (X± SE) (n)	14.40 ± 0.17	(5 sites)	
gilvin (g440/m) (X± SE) (n)	4.099 ± 0.161	(5 sites)	
turbidity (NTU) (X± SE) (n)	8.61 ± 1.27	Higher than actual value – sediment easily disturbed when taking samples (5 sites)	
Secchi disc (m) (n)	0.67 ± 0.04	(5 sites)	
P04 (µg/l) (n)	370	Bulked water sample from 5 sites	
NH4 (µg/l) (n)	900	Bulked water sample from 5 sites	
NO3 (µg/l) (n)	210	Bulked water sample from 5 sites	
chlorophyll <i>a</i> (µg/l) (n)	7.8	Bulked water sample from 5 sites	
Aquatic Plants			
Total no. of species	3		
Total no. of macrophyte species	2		
Total no. of algal species	1		
Names of most abundant macrophyte taxa	Najas marina	Less than 10% cover, but most abundant	
Names of most abundant algal taxa	spirogyra sp.	Found at most sites in small quantities	
Total per cent cover	~10%		
Percent of wetland area covered	~5-10%		
Exotic index	0		
Health (excellent/average/poor)	Average		
Fringing Vegetation			
No. of plant communities	1		
Percent of wetland area covered	~5%		
Dominant community 1:	Restored Foreshore	(Project initiated in 2002)	

Percent of wetland area covered	~5%	
Total number of species	26	
Names of most abundant taxa	Hypocolema augustifolia Scirpus lacustris Melaleuca preissiana Melaleuca raphiophylla Juncus articulatus Melaleuca teritifolia Juncus pallidus Eucalyptus rudis	Five sites were sampled in this community
Structure index	3	
Total % cover (up to 300%)	120%	
Exotic index	17.5%	
Health (excellent/average/poor)	Average/poor	
<i>Dominant community 2:</i>		
Percent of wetland area covered		
Total number of species		
Names of most abundant taxa		
Structure index		
Total % cover (up to 300%)		
Exotic index		
Health (excellent/average/poor)		
Terrestrial Vegetation		
No. of plant communities	3	
Percent of wetland perimeter covered	90%	
<i>Dominant community</i>	Remnant woodland	
Percent of wetland perimeter covered	~30%	
Total number of species	8	
Names of most abundant taxa	Melaleuca preissiana Xanthorrhoea preissii	
Structure index	3	
Total % cover (up to 300%)	85%	
Exotic index	12.5%	
Health (excellent/average/poor)	Average/poor	
Aquatic Invertebrates		
Mean no. of taxa (X± SE) (n)	5.6 ± 0.46	
Names of most abundant taxa	Corixidae Daphniidae Cyprididae	
Mean no. of predatory E) (n)	1.2 ± 0.84	
Indicator species present	Corixidae Daphniidae	
Dominance of Insecta vs Crustacea	Crustacea	
State (clear, macrophyte-dominated/ turbid , phytoplankton-dominated/ clear, benthic mat dominated)	Clear	
Human Impacts		
Disturbance (high/med/low):in water	High	
Disturbance (high/med/low):in fringing vegetation	High	
Number of drains	12	