

Appendix 1. River heights and discharge maxima during 1978

River (Location)	Date	Height (m)	Discharge (ML/day)
Avon (Stratford)	2.4.78	3.9	33,100
	3.6.78	6.8	138,700
	15.6.78	5.3	78,100
Latrobe (Kilmany South)	21.5.78	5.0	14,300
	4.6.78	6.5	127,000
	17.6.78	5.2	23,000
Mitchell (Glenaladale)	3.4.78	3.9	36,700
	3.6.78	5.7	77,500
	14.6.78	5.5	66,400
Nicholson(Sarsfield)	3.4.78	4.4	17,300
	3.6.78	5.8	31,400
	19.6.78	4.1	15,100
Perry (Perry Bridge)	20.5.78	5.1	70,800
	3.6.78	6.2	15,100
	14.6.78	4.6	5,600
Tanbo (downstream from Ramrod Creek)	3.4.78	8.2	80,300
	3.6.78	9.2	96,000
	18.6.78	6.2	51,200

Appendix II. Surface and bottom salinities at various locations in the Gippsland Lakes during 1978 and early 1979.

Location / Depth	Salinity (parts per thousand) on :				
	7-3-78	5-4-78	18-4-78	9-8-78	9-1-79
Cunningham Arm					
surface	32.5	-	-	-	22.6
bottom	31.5	-	-	-	23.9
North Arm					
surface	30.5	0.09	9.0	-	17.5
bottom	-	26.9	27.0	-	15.0
Nungurner					
surface	29.0	-	-	-	15.0
bottom	29.0	-	-	-	28.0
Point Wilson (eastern Lake Victoria)					
surface	28.5	-	-	-	11.5
bottom	28.7	-	-	-	23.2
Resides Jetty					
surface	27.2	-	15.0	2.6	20.7

Appendix III. Concentrations of metals in leaves of *Zostera muelleri*.

Date	Locality	Concentration (ug/g, dry weight)										
		As	Cd	Co	Cu	Fe	Hg	Mn	Ni	Pb	Se	Zn
7-9 March 1978	Granite Jetty	0.80	4.75	5.0	445	0.20	470	23.0	13.5			85
	Ocean Grange	0.55	4.55	9.0	585	0.25	740	18.0	9.0			125
	Picnic Arm	0.55	6.0	10.5	690	0.20	515	18.5	6.0			115
	Storm Point	6.0	9.5	10.0	595	0.20	590	20.5	13.5			125
	Red Bluff	0.55	10.0	9.0	680	0.35	720	12.5	4.5			115
	Launching Ramp, North Arm	0.95	1.10	6.0	505	0.15	165	12.5	6.5			160
	2nd Jetty, North Arm	0.60	2.0	6.5	670	0.60	65	9.59	5.0			65
	Ports and Harbours jetty, Cunningham Arm	0.55	2.35	9.0	620	0.15	240	11.0	7.0			150
	Works Jetty, Cunn. Arm.	0.40	4.3	7.5	455		415	17.5	13.0			140
	No.2 wharf, Cunn. Arm.	0.40	1.05	6.5	460	0.35	300	7.5	4.5			135
	Seacomb's Landing, McLennans Strait.	0.55	6.0	17.5	685	0.30	500	17.5	24.0			170
	Cameron's Point	0.40	4.6	7.0	N.A.	0.10	100	135	2.0			26
	Newlands Arm	2.85	4.25	12.5	N.A.	0.10	140	100	5.5			47
	Victoria Lagoon	0.45	11.5	18.0	N.A.	0.20	105	27.5	7.0			N.A.
	Loch Sport	0.65	2.65	4.1	N.A.	0.10	100	4.5	1.5			N.A.
8-9 August 1978	North Arm	1.3	<0.3	17	885	0.62	4960	3.5	<2			78.3
	Newlands Arm	1.6	1.0	30	1060	1.01	7970	8.8	<4			140
25 October 1978	Ocean Grange	0.69	0.54	4.4	363	0.03	1320	<4	<0.5			49.0
	Metung	2.9	0.76	<3	4020	0.14	649	6.9	2.0			147
	Metung	1.9	<0.6	4.6	2390	0.43	661	<4	1.2			137
	Metung (unwiped)	1.6	<0.6	<3	2720	1.75	353	3.5	1.3			71.7
	Sperm Whale Head	2.7	0.52	11	2640	0.17	1695	7.2	<0.5			30.7
	Nungurner	3.7	<0.6	3.9	4660	0.16	856	<4	<0.5			33.3
	Bunga Arm	2.0	<0.6	<3	785	0.03	2200	<4	<0.5			25.6
	Duck Arm	0.67	<0.6	4.3	1010	0.06	1640	7.2	<0.5			26.6
	North Arm	3.0	<0.6	9.6	2490	0.11	1480	5.0	<0.5			33.1
	Paynesville	0.48	<0.6	<3	487	0.04	1890	<4	<0.5			69.4
10 January 1979	Residas Jetty	0.81	<0.5	4.6	85.1	0.13	1130	10	<0.27			9.7

N.A. not analysed

Appendix IV. Concentrations of metals in leaves of Zostera muelleri at various distances from the roots.

Samples were collected on 7 March 1976.

Locality	Distance of leaves from roots (cm)	Concentrations (ug/g, wet weight)										
		Cd	Co	Cu	Mn	Ni	Pb	Zn				
Lakes Entrance (Ports and harbours jetty)	0-8	0.23	0.21	0.53	10	0.15	0.24	8.1				
	8-17	0.76	0.25	0.75	21	0.30	0.35	10				
	17-27	0.39	0.45	1.1	57	0.34	0.72	20				
	27-34	0.39	0.25	0.95	51	0.42	0.47	18				
	34-42	0.69	0.57	1.3	52	N.A.	0.96	17				
	42-50	0.17	0.60	1.8	73	0.80	0.67	21				
	50-58	0.36	0.55	1.7	78	0.80	1.1	31				
	58-63	0.35	0.80	2.2	41	0.84	0.70	32				
	North Arm (launching ramp)	0-5*	0.34	0.91	2.2	22	0.11	N.A.	19			
		5-10	0.19	0.55	1.2	18	0.45	4.0	20			
10-16		0.23	0.51	0.94	23	N.A.	3.4	18				
16-21		0.20	0.28	1.0	29	0.47	3.8	15				
21-28		0.27	0.31	1.1	34	0.52	3.6	17				
28-34		0.21	0.80	1.0	57	N.A.	2.8	32				
34-43		<0.01	0.72	1.4	88	N.A.	6.9	35				
Nungurner jetty		1-4*	0.02	0.55	2.49	16	0.46	4.3	13			
	4-11	0.01	0.37	0.99	31	0.50	0.59	11				
	11-19	<0.01	0.84	1.3	49	0.49	0.62	12				
	19-28	<0.01	1.3	1.6	70	0.06	0.81	16				
Nyarimiliang jetty	28-39	<0.01	0.84	1.6	59	0.59	1.3	14				
	0-9	0.03	0.69	0.70	52	0.52	0.15	4.2				
	9-16	0.05	0.65	0.71	53	0.49	0.21	5.3				
	16-22	0.06	0.84	0.79	56	0.50	0.34	5.5				
	22-32	0.02	0.83	0.81	69	0.50	0.42	6.1				

* Sample included material from the plant's roots.
N.A. not analysed

Appendix VI. Concentrations of metals in tissues of *Mytilus edulis* from various localities. b, byssus; m, muscle; g, gills; ma, mantle; v, viscera; f, foot; wh, whole; N.A., not analysed; N.D., not detected.

Date	Locality	Tissue	Concentration (ug/g, wet weight)									
			Cd	Co	Cu	Fe	Hg	Mn	Ni	Pb	Zn	
2 March 1978	Cunningham Arm (Ports and Harbours Jetty)	b	0.16	2.7	11	N.A.		N.A.	N.A.	N.A.	67	
		m	0.16	0.74		0.24		1.0	N.A.	N.A.	21	
		g	0.92	1.3	1.5	N.A.		3.0	N.A.	N.D.	41	
		f	0.38	7.8	1.7	N.A.		23	N.A.	N.D.	18	
		ma	0.25	0.20	0.81	N.A.		1.3	N.A.	0.05	16	
		v	0.81	1.4	2.8	N.A.	0.15	4.6	N.A.	N.A.	32	
		wh										
		b	0.71	N.A.	8.5	N.A.		85	5.4	3.8	52	
		m	0.21	N.A.	0.73	6.6		1.0	0.19	0.08	28	
		g	0.20	N.A.	1.2	22		2.2	0.47	0.06	24	
f	1.1	N.A.	2.0	110		2.6	3.5	0.61	11			
ma	0.10	N.A.	1.0	7.8		1.2	0.22	0.02	14			
v	0.38	N.A.	2.2	35	0.03	2.4	0.88	0.09	29			
wh												
	Cunningham Arm (Ports and Harbours new works Jetty)	b	0.72	1.7	7.1	380		29	30	6.1	41	
		m	0.18	0.20	0.62	28		1.3	3.4	0.45	46	
		g	0.33	0.78	1.6	67		2.9	9.5	1.4	75	
		f	0.52	1.6	1.4	25		2.9	67	0.29	7.7	
		ma	0.11	N.A.	0.73	17		1.0	180	0.16	11	
		v	0.55	0.46	1.7	45	0.07	2.1	15	0.79	50	
		wh										
		b	0.82	N.A.	15	240		6.6	8.6	14	82	
		m	0.54	N.A.	1.4	70		0.75	120	1.1	48	
		g	0.48	N.A.	1.6	210		N.A.	1.6	5.0	14	
f	1.9	N.A.	2.5	90		2.4	9.8	2.0	19			
ma	0.21	N.A.	2.0	47		0.59	2.1	0.47	43			
v	0.73	1.2	2.7	93	0.04	1.9	2.0	1.8	N.A.			
wh												
	North Arm (launching ramp)	b	0.22	6.2	11	N.A.		140	N.A.	1.8	58	
		m	0.21	1.2	0.37	N.A.		4.8	N.A.	N.D.	27	
		g	0.24	N.A.	1.7	N.A.		3.7	N.A.	N.A.	36	
		f	0.63	N.A.	0.93	N.A.		3.8	N.A.	"	12	
		ma	0.14	N.A.	0.82	N.A.		3.1	N.A.	0.06	16	
		wh	19	N.A.	107	N.A.	0.16	30	N.A.	N.D.	>1000	
	Nungurner Jetty	b	0.22	6.2	11	N.A.		140	N.A.	1.8	58	
		m	0.21	1.2	0.37	N.A.		4.8	N.A.	N.D.	27	
		g	0.24	N.A.	1.7	N.A.		3.7	N.A.	N.A.	36	
		f	0.63	N.A.	0.93	N.A.		3.8	N.A.	"	12	
		ma	0.14	N.A.	0.82	N.A.		3.1	N.A.	0.06	16	
wh	19	N.A.	107	N.A.	0.16	30	N.A.	N.D.	>1000			

continued...

Appendix VI (continued)

Date	Locality	Tissue	Concentration (ug/g, wet weight)									
			Cd	Co	Cu	Fe	Hg	Mn	Ni	Pb	Zn	
7 March 1978												
Cunningham Arm (Ports and Harbours Jetty)												
		b	0.14	1.8	7.3	N.A.	61	34	1.6	35		
		m	0.30	0.26	0.62	8.3	0.96	1.7	0.03	27		
		g	0.25	0.80	1.4	43	2.5	4.5	0.13	N.A.		
		f	N.D.	2.3	1.7	17	2.6	5.5	0.79	11		
		ma	0.07	0.09	0.53	10	0.91	1.3	0.03	9.0		
		v	0.80	0.46	2.0	39	1.9	7.5	0.13	16		
		wh					0.04					
Cunningham Arm (Wharf no. 1)												
		b	0.36	N.A.	20	520	130	45	2.9	110		
		m	0.13	0.08	0.67	8.3	0.83	1.6	0.54	17		
		g	0.17	N.A.	1.3	43	3.3	25	0.20	22		
		f	0.22	N.A.	1.7	29	2.3	N.D.	0.39	9.0		
		ma	0.04	N.A.	1.8	8.0	1.2	1.4	0.03	9.0		
		v	0.42	0.14	2.8	36	2.1	5.9	0.14	34		
		wh					0.05					
Private Jetty between Kungurner and Nyerlimalang												
		b	0.18	N.A.	5.9	160	64	70	1.2	7.6		
		m	0.26	0.21	0.85	11	1.4	1.2	0.04	38		
		g	0.14	0.50	1.2	31	3.2	3.5	0.08	12		
		f	N.D.	1.3	0.97	26	3.9	N.D.	0.44	10		
		ma	0.06	N.A.	1.4	11	1.5	1.2	0.03	5.0		
		v	0.42	0.76	2.0	48	2.9	6.4	N.D.	29		
		wh					0.02					
9 March 1978												
Lakes Entrance (Granite Jetty)												
		b	0.63	N.A.	4.9	270	97	8.6	2.5	10		
		m	0.35	N.A.	0.78	26	0.93	N.A.	N.D.	17		
		g	0.47	N.A.	1.4	36	1.2	1.2	N.D.	25		
		f	1.2	N.A.	1.6	38	1.3	5.0	N.D.	13		
		ma	0.18	N.A.	1.1	31	1.2	2.4	N.D.	0.95		
		v	N.A.	N.A.	N.A.	N.A.	N.A.	3.1	N.D.	N.A.		

Appendix VII. Concentrations of metals in individual whole Mytilus edulis collected near Lakes Entrance.

Locality	Length (mm)	Concentration (ug/g, dry weight)							
		As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Granite jetty west of entrance channel 9 Aug. 1978									
	66	1.1	4.7	4.1	87	>2.7	4.8	3.8	167
	63	1.8	4.6	2.7	91	3.5	3.1	4.0	75
	65	1.5	4.4	3.8	184	2.5	5.0	6.3	52
	60	2.6	1.9	3.4	96	2.1	2.7	3.9	73
	56	1.2	4.3	2.9	184	>2.2	4.3	5.1	41
	56	2.1	2.2	3.1	89	>2.2	3.5	4.8	66
	54	1.2	2.7	5.4	75	4.2	3.7	5.1	54
	52	1.2	3.0	3.7	94	4.7	5.0	4.9	51
	53	1.1	2.2	4.8	75	3.4	5.0	4.5	47
	55	3.9	1.5	3.2	74	10.6	4.0	3.8	43
Granite jetty west of entrance channel 25 Oct. 1978									
	56	2.7	4.3	3.1	69		7.0	4.6	53
	47	1.7	5.8	<2	83		4.6	2.7	46
	44	0.21	2.2	<2	100		4.1	5.0	93
	43	0.66	4.4	11	78		3.8	5.0	151
Rocks, entrance channel 9 Aug. 1978									
	63	2.4	3.4	3.5	98		12	6.0	335
	56	1.8	4.3	3.1	127		9.8	5.7	140
	58	6.0	2.0	4.5	55		5.0	4.2	83
	54	6.2	2.1	3.9	139		7.9	5.0	109
	50	1.9	3.6	3.1	89		6.5	5.9	104
	54	3.5	2.8	4.5	124		6.1	4.8	123
	54	4.5	3.5	3.2	104		6.9	5.5	317
	55	6.1	3.4	4.4	145		8.2	4.7	109
	50	6.0	1.6	3.6	87		4.6	4.8	130
	51	1.7	5.7	4.2	191		7.9	6.0	124
	52	7.9	1.7	5.1	74		6.0	4.2	141
	49	5.8	3.0	5.3	173		7.1	3.7	142
	48	3.6	1.5	4.3	66		4.3	3.1	85
	47	2.1	2.3	4.5	144		6.5	4.7	55
	50	5.1	2.1	5.2	145		8.7	4.2	84
	45	5.0	2.9	4.8	63		9.4	2.9	192
	45	1.6	2.2	5.8	117		5.7	4.1	74
	42*	2.6	4.0	6.7	168		13	2.0	88
	43*	4.7	2.0	7.1	232		11	2.1	60
	36*	4.8	3.0	5.7	194		11	1.8	82
Rocks entrance channel 25 Oct. 1978									
	68	13	2.2	5.5	70	0.20	12	3.5	51
	56	21	3.3	6.5	104	0.16	15	2.8	31
	52	10	1.3	4.5	73	0.14	13	2.0	63
	51	11	1.6	8.0	87	0.11	10	4.0	29
	49	11	3.0	6.4	21	0.06	7.3	3.8	25
	49	12	1.9	2.7	74	0.16	10	3.7	72
	50	15	3.2	3.4	40	0.15	11	3.9	68
	45	12	1.8	2.0	103	0.05	9.1	4.0	41
	34	13	<0.6	3.8	183	0.17	22	5.4	76
	40*	16	2.6	6.8	72	0.18	12	1.6	45
	41*	13	4.0	2.8	67	<0.05	12	1.0	58
Kalima jetty 1 March 1978									
	16#	11	1.0	4.5	167	<0.05	21	6.4	53

* Beaked mussel. #Mean of 11 samples too small for individual analysis.

Appendix IX. Concentrations of metals in sediment samples
(Concentrations of cadmium in all samples were less than 0.5 ug/g dry weight).
(Samples 301 and 401 and samples 302 and 402 were collected at the same place)

Date	Sample no.	Metal concentration (ug/g, dry weight)										
		As	Co	Cr	Cu	Fe	Hg	Mn	Ni	Pb	Zn	
8 Aug. 1978	201**		6.0	12	6.0	5,000	6	119	5.5	6	22	
	202		7.0	26	24	22,750	30	142	13	23	37	
9 Aug. 1978	203		11	20	13	16,000	11	174	11	8	31	
	204		7.0	27	18	20,000	28	114	11	14	38	
10 Aug. 1978	205		9.5	20	16	14,250	17	73	14	12	46	
24 Oct. 1978	101		6.8	20	16	12,250	0.13	275	15		40	
	102		3.8	12	12	10,150	0.06	45	7.6		26	
	103		3.8	6.0	15	7,150	0.03	260	5.4		28	
	104		2.1	26			0.60		9.4			
	105		1.1	20	18	11,600	0.40	69	6.0		37	
8 Jan. 1979	1	7.2	9.5	15	14	18,000	0.40	105	12.5	11	34	
	2	3.2	3.0	<2.5	3.0	1,000	0.05	15	4.0	2	5.5	
	3	3.4	4.5	15	7.5	7,000	0.13	40	6.5	6	17	
	4	1.8	4.5	9.0	8.5	10,500	0.25	75	8.5	4	25	
	5	1.6	6.0	6.0	9.0	<500	0.13	55	8.5	8	34	
	6	1.6	3.0	6.0	1.0	3,000	0.10	30	3.0	2	15	
	7	8.0	7.5	17	20	18,000	0.48	130	8.5	16	36	
	8	N.A.	4.0	26	3.0	<500	0.08	75	2.0	6	9.5	
	9	4.4	6.0	20	23	19,500	1.2	125	9.5	16	39	
	10	N.A.	7.5	17	17	N.D.	0.21	85	12	18	110	
	11	N.A.	8.5	17	15	18,000	0.09	100	12	14	69	
	12	4.8	6.5	26	18	20,500	0.85	160	14	18	42	
	13	5.6	6.8	29	17	19,000	0.60	170	13	18	36	
	14	9.0	4.0	20	9.0	13,500	0.50	190	8.5	8	27	
	15	4.2	<2.0	<2.5	3.0	6,000	0.32	65	8.5	<2	11	
	16	3.8	4.5	15	7.5	10,000	0.50	170	8.5	2	23	
	17	1.6	<2.0	3	<0.5	500	0.80	10	2.0	<2	25	
	18	7.6	4.5	20	15	14,500	1.3	70	8.5	16	34	
	19	1.8	2.0	<2.5	0.5	1,000	0.20	10	<2.0	<2	5.5	
	20	N.A.	6.5	9.0	9.0	<500	0.11	65	6.5	8	24	
	26	3.2	7.5	20	15	16,500	0.90	180	13	10	39	
	27	2.8	8.5	23	17	14,500	0.67	145	13	8	38	
	28	9.0	7.5	23	17	18,500	0.86	215	11	8	33	
	29	7.2	6.5	23	16	17,500	0.96	180	9.5	6	34	
	25 July 1979	301*		1.3		19	13,000	7.2	215		25	39
		301#		1.3		21	18,400	58	130		30	39
		302*		1.2		17	14,100	9.1	548		26	36
		302#		1.1		18	17,000	100	244		28	45
	7 Feb. 1980	401*						12				
401#							21					
402*							50					
402#							1.5					

* Sampled at depth of 0-1 cm. # Sampled at depth of 1-5 cm.

** Sample from Tambo River, near Bruthen.

Appendix X. Concentrations of mercury in mammals from the Gippsland Lakes catchment.

Species / Locality	Weight (g)	Conc. of mercury (ug/g, wet weight) in:			
		Muscle	Liver	Kidney	Other
Black Rat					
Tambo, Nicholson R.		<0.01	<0.01	<0.01	
Black Rat					
Mitchell R.	191	<0.01	<0.01	0.02	
Mitchell R.	139	<0.01	<0.01	0.03	
Mitchell R.	93	0.02	<0.01	<0.01	
Brown Rat					
Mitchell R.		0.09	0.26	0.71	
Brushtail Possum					
Tambo, Nicholson R.	4100	<0.01	0.11	0.09	
Tambo, Nicholson R.	3100	<0.01	0.04	0.14	
Tambo, Nicholson R.	2900	<0.01	0.03	0.31	
Tambo, Nicholson R.	4000	0.03	0.03	3.12	
Brushtail Possum					
Mitchell R.	3200	<0.01	0.14	0.56	
Mitchell R.	2200	<0.01	<0.01	0.02	
Mitchell R.	2900	<0.01	0.30	0.63	0.10 (bone)
Mitchell R.	3000	<0.01	0.04	0.05	
Brushtail Possum					
Avon, Thompson, McAlister R.		<0.01	0.38	0.04	
Avon, Thompson, McAlister R.	3600	<0.01	0.06	0.04	<0.01 (bone)
Avon, Thompson, McAlister R.	2600	<0.01	0.38	0.26	
Avon, Thompson, McAlister R.	3200	<0.01	0.06	0.18	
Avon, Thompson, McAlister R.	2900	<0.01	0.04	0.16	
Cat (feral)					
Tambo, Nicholson R.		0.05	0.07	0.09	
Mitchell R.		0.06	0.17	0.06	
Eastern Grey Kangaroo					
Tambo, Nicholson R.		<0.01	<0.01		<0.01 (fat)
Tambo, Nicholson R.	25000	<0.01	<0.01	0.04	0.06 (fat)
Eastern Grey Kangaroo					
Mitchell R.	43600	<0.01		<0.01	<0.01 (fat)
Mitchell R.	42100	<0.01		<0.01	<0.01 (fat)
Mitchell R.	33000	<0.01		0.01	
Mitchell R.	53500	<0.01		<0.01	<0.01 (fat)
Mitchell R.	29500	<0.01		0.02	<0.01 (fat)
Eastern Grey Kangaroo					
Avon, Thompson, McAlister R.	30000	<0.01	0.05		0.08 (fat)
Avon, Thompson, McAlister R.	28000	<0.01	<0.01		<0.01 (fat)
Avon, Thompson, McAlister R.	43000	<0.01	<0.01		<0.01 (fat)
Avon, Thompson, McAlister R.	24000	<0.01	<0.01		<0.01 (fat)
Avon, Thompson, McAlister R.	57400	<0.01	<0.01		<0.01 (fat)
Avon, Thompson, McAlister R.	60400	<0.01	0.01	0.05	0.02 (fat)
Avon, Thompson, McAlister R.	32000	<0.01	0.03	0.01	<0.01 (fat)

Appendix XI. Concentrations of mercury in birds from the Gippsland Lakes catchment and other areas.

Species /	Locality	Weight (g)	Length (cm)	Conc. of mercury (ug/g wet weight) in:			
				Muscle	Liver	Kidney	Other
Coot	Tambo, Nicholson R.	520	36	<0.01			
		510	38	<0.01	0.34	0.03	
		570	35	<0.01			
		570	34	0.01		0.02	
		463	33	<0.01		0.01	
		465	34	<0.01	0.03		
Coot	Mitchell R.	650	37	<0.01	<0.01	<0.01	
		443	33	<0.01	<0.01		
		704	36	<0.01	0.02	0.03	
		562	35	<0.01		<0.01	
Coot	Avon, Thompson, McAlister R.			0.04	0.08	0.16	
		595	38	0.05	0.48	0.14	
		480	36	0.02	0.11	0.11	
		650	38	0.05	0.88	0.17	
		460	35	0.04	0.27	0.21	
		495	36	0.02	0.15	0.08	
		495	36	0.07	0.19	0.11	
		568	37	0.03	0.16	0.09	
		680	39	0.03	0.11	0.11	
		484	36	0.07	0.04		0.23 (bone)
366	33	0.01	0.24		0.06 (bone)		
Cormorant	Lake Buffalo	1080		0.68	3.15	2.85	4.53 (feathers)
		1050		0.59	3.61	4.12	
		1000		0.69	3.07	11.6	
		1250		0.82	1.07	4.84	
		1770		0.26	3.94	6.46	
		810		0.35	1.60	0.81	
		820		0.57	1.18	1.31	
Cormorant	Lake Modewarre			0.34	1.22	1.63	
Cormorant	Mitchell R.	820	31	1.71	1.97	3.75	0.49 (bone)
		620		2.47	3.51	4.44	
		746	54	0.18	0.91	2.13	
		792	57	0.97	4.69		
		827	57	0.57	4.50	3.89	
Cormorant	Avon, Thompson, McAlister				40.7	21.7	0.91 (bone)
Cormorant	Nicholson R.			0.19	0.82	0.62	

continued...

Appendix XI (continued)

Species ↙ Locality	Weight (g)	Length (cm)	Conc. of mercury (ug/g wet weight) in:			
			Muscle	Liver	Kidney	Other
Cormorant						
Snobs Creek						
			0.61	3.04	10.3	
			0.26	8.28	0.36	
			0.52	1.38	3.84	
			0.33	2.7	3.48	
			0.28	5.54	6.24	
			0.75	2.34	1.41	
			0.43	2.16	3.00	
			0.85	5.2	6.76	
			0.80	3.32	2.16	
			0.31	1.30	1.29	
			0.39	1.31	1.23	
			0.22	2.12	1.91	
			0.35	0.59	0.76	
			0.32	5.52	13.7	
			1.21	14.5	14.9	
			0.90	14.9	12.9	
			0.45	2.4	2.76	
			0.47	1.89	1.48	
			0.49	6.54	8.22	
			0.46	6.23	7.01	
			0.57	2.02	1.29	
Cormorant						
Tambo, Nicholson R.						
	640	55	1.11	7.11	5.24	
	726	55	0.71	2.88	2.32	
	820	55	0.75	3.44	2.73	
	780	53	0.30		2.49	
	900	58	0.36	1.57	1.06	
Crimson Rosella						
Avon, Thompson, McAlister R.						
	125	34	<0.01			
	138	38	<0.01			
	139	37	<0.01			
	133	35	<0.01			
	149	35	<0.01			
	122	31	<0.01			
Crimson Rosella						
Latrobe River						
	128	87	<0.01			
	144	38	0.05	<0.01	<0.01	
	132	87	<0.01			
	122	38	<0.01			
	141	38	<0.01			
Crimson Rosella						
Tambo, Nicholson R.						
	145	36	<0.01			
	152	36	<0.01			
	142		<0.01			
	132	36	<0.01			
	151	36	<0.01			

continued...

Appendix XI (continued)

Species / Locality	Weight (g)	Length (cm)	Conc. of mercury (ug/g wet weight) in:			
			Muscle	Liver	Kidney	Other
Crimson Rosella Mitchell River	123	41	<0.01			
	143	40	<0.01			
	138	38	<0.01			
	119	35	0.76			
Dusky Moorhen Mitchell River	561		<0.01	<0.01		
Kookaburra Mitchell R.	440		0.04		0.11	
	390		0.03	0.08	0.05	
	400	46	0.04	0.11	0.12	
	320	44	0.05		0.07	
	380	42	0.03	0.04	0.09	
	410	47	0.01		0.02	
Kookaburra Tambo, Nicholson R.	343	44	0.03	0.08	0.03	
			0.03	0.06	0.10	
	328	44	0.10	0.21	0.22	
	297	43	0.03	0.01	0.08	
	314	45	0.04	0.13	0.14	
Kookaburra Avon, Thompson, McAllister	322	43	0.03	0.05	0.08	
	358	44	0.02	0.02	0.03	
	306	42	0.02	0.05	0.07	
	350	43	0.05		0.12	
	370	43	0.06	0.13	0.16	
	390	43	0.04	0.11	0.15	
Kookaburra Latrobe River	325	38	0.04	0.17	0.34	0.21 (bone)
	294	42	0.09	0.22	0.22	
	353	43	0.09	0.17	0.22	
	311	42	0.12	0.24	0.14	
Masked Lapwing Plover Avon, Thompson, McAllister R.			0.05	0.08	0.10	0.02 (bone)

Appendix XII. Concentrations of heavy metals (ug/g, dry weight) in fish tissues.

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Anchovies 16 Aug 1978 Resides Jetty	6.50	-	Whole	2.8	<0.4	3.9	97	1.02	19	1.1	91
Anchovies 25 Oct 1978 Bunga Arm	-	-	Whole	1.2	<0.8	2.0	72	0.33	19	1.9	76
Blackfish 31 Oct 1978 Thomson River	35.5	485	Liver	0.7	<0.6	12	667	0.63	4.4	5.9	100
			Gills	<0.6	<1.0	1.6	99	0.17	12	1.8	83
			Muscle	0.38	<0.8	4.6	206	0.99	12	6.2	83
			Liver	<0.5	<0.8	8.0	518	1.49	4.5	6.7	88
			Muscle	1.6	<3.0	11.7	295	0.86	12	6.2	111
			Liver	<1.4	<3.0	10.4	478	0.43	16	4.9	87
			Muscle					0.83			
			Muscle					0.45			
			Muscle					0.87			
Bream 11 May 1978 North Arm	13.5 19.6	51 166	Muscle Liver	4.15	0.90	135	1040	0.35 N.A.	3.4	9.5	465
			Muscle	5.5	0.65	70	475	0.60	7.0	9.0	414
			Liver	2.4	0.50	11	700	1.2	3.3	6.0	540
			Muscle	1.4	0.45	24	455	N.A.	2.2	3.75	510
			Liver	2.8	0.5	93	950	0.50	5.9	9.8	725
			Muscle					1.05			
			Liver					0.83			
			Muscle					2.65			
Bream 8 Aug. 1978 Nicholson River	30.6	532	Liver	0.74	<0.6	56	1710	0.33	2.0	6.9	207
			Gills	1.3	<0.6	1.9	68.4	0.08	38	2.7	55.4
			Muscle	2.2	<0.6	130	1370	0.65	7.7	9.2	296
			Liver	3.2	<0.6	112	847	0.78	6.5	7.3	264
			Muscle	1.8	<0.6	1.7	47.5	0.90	76	2.1	77.8
			Gills					0.40			
			Muscle					0.14			
			Muscle					0.71			

Appendix XII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn	
Bream 25 Oct. 1978 Duck Arm	28.7	373	Liver	6.5	0.93	235 ^o	1780	0.30	4.4	5.2	369	
			Gills	2.2	<0.6	1.6	322	N.A.	99	2.2	86	
		27.0 21.5	361 179	Muscle				0.53				
	Muscle			2.7	<0.4	55.3	1205	0.83	5.6	5.2	317	
	Liver						0.30					
	21.4	159	Muscle	6.8	<1.0	64	1920	0.42	10	7.6	278	
Liver						0.87						
	22.3	176	Muscle					0.82				
			Muscle					0.33				
Bream 25 Oct. 1978 North Arm	36.7	892	Liver	1.4	<0.5	7.2	226	0.66	3.9	3.6	393	
			Muscle					1.38				
		34.5	694	Liver	4.3	0.69	23	788	0.76	4.2	7.1	228
	Gills			0.39	<0.5	<1.3	110	0.23	30	1.6	66	
		25.3	261	Muscle					1.33			
	Liver			0.55	0.70	69	1550	0.72	4.3	3.6	431	
		21.7	159	Muscle	1.8	0.87	62	1300	0.86	1.9	6.3	473
	Liver							0.43				
		22.0	164	Muscle	5.0	<0.5	40	1390	0.57	4.5	7.5	193
	Liver							0.47				
		23.5	225	Muscle					0.46			
	Liver			2.8	0.65	38.2	590	0.26	4.8	4.4	162	
	21.8	170	Gills	3.1	0.64	<1.6	115	0.19	21	1.6	64	
Muscle							0.70					
	17.6	92	Liver	2.6	0.87	53	619	0.40	3.0	5.4	433	
Muscle							0.7					
			Liver	1.4	0.84	76	1150	0.40	2.9	6.7	197	
			Muscle					0.63				

Appendix XII (Continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Dusky Flathead 25 Oct 1978 North Arm	56.0	>1.2 kg	Liver	0.37	0.94	3.8	2200	3.7	<0.92	4.2	40.8
			Muscle					2.58			
	56.0	>1.2 kg	Liver	0.49	<0.5	4.4	714	0.60	<0.82	3.4	40.8
			Gills	0.39	<0.5	<1.7	97.1	0.19	<0.97	2.5	119
	50.0	>1.2 kg	Muscle					1.21			
			Liver	0.57	<0.5	5.7	710	0.78	1.4	4.0	62.7
			Muscle					0.52			
Estuary Perch 9 Aug. 1978 Newlands Arm	16.0	55.5	Liver	4.6	<1.4	24	227	N.S.	6.7	9.4	102
			Muscle					0.57			
Estuary Perch 13 Aug. 1978 Tambo River	25.2	338	Liver	7.8	<0.5	15	222	0.57	6.3	5.8	70.3
			Muscle					1.17			
	30.9	439	Liver	1.2	<0.5	29	397	1.2	4.4	8.8	106
			Gills	0.25	<0.5	1.9	37	0.38	14	2.0	41.5
			Muscle					2.02			
	28.6	384	Liver	0.86	<0.5	11	108	0.66	3.0	4.4	52.7
			Muscle					1.77			
	27.7	336	Liver	3.6	<0.5	15	145	0.44	4.7	6.1	71.8
		Muscle					0.95				
	27.8	343	Liver	7.0	<0.5	8.4	200	0.40	4.0	7.1	56.7
			Muscle					0.91			
	26.9	287	Liver	1.8	<0.5	5.0	195	0.28	6.2	5.0	74.6
			Muscle					0.52			
Estuary Perch 6 Oct 1978 Lower Latrobe River	26.8	320	Liver	1.9	<0.4	15	283	0.73	6.6	12	84.0
			Muscle					1.10			
	29.5	425	Liver	4.1	<0.5	28	435	0.84	6.9	9.3	88.0
			Muscle					1.06			
	31.0	520	Liver	7.0	<0.5	16	415	0.68	6.9	12	81.8
			Muscle					0.98			
	26.9	287	Liver	2.6	<0.5	6.4	266	0.61	3.3	9.3	55.0
			Gills	1.5	<0.5	<1.9	85.1	0.39	36	3.3	64.1
		Muscle					1.16				

Appendix XII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Estuary Perch 24 Oct 1978 Latrobe River	18.0	87	Liver	6.6	<1.0	31	388	N.S.	7.5	9.9	130
			Gills	2.4	<2.0	<5.1	113	0.37	15	<1.2	74.6
	17.8	90	Muscle	3.6	<2.0	15	621	1.11	8.2	15	110
			Liver	4.0	<0.5	26	145	0.99	6.7	11	89.7
	28.3	389	Muscle	6.6	<0.4	30	587	1.08	8.0	N.A.	114
			Liver	2.1	<1.0	37	46	N.A.	<2.5	4.7	21
	31.5	554	Bile	0.64	<0.4	6.3	261	1.05	6.3	8.6	56.4
			Muscle	0.51	<0.4	<1.5	133	0.26	7.7	2.2	47.6
	31.8	520	Liver	1.0	<1.5	1.2	111	N.A.	13	2.9	88
			Gills	4.7	<0.5	31	499	0.78	13	8.2	124
Muscle	Combined										
Estuary Perch 25 Oct 1978 Bunga Arm	17.5	79	Muscle					0.91			
	16.8	67.5	Muscle					0.62			
	16.5	69.0	Muscle					1.02			
	16.0	60.0	Muscle					0.83			
	15.8	57.0	Muscle					1.03			
Flounder 25 Oct. 1978 North Arm	3.5	-	Whole	2.7	<1.0	1.4	1460	0.08	21.9	4.4	117
	4.5	-									
Hardyhead 15 Aug. 1978 Newlands Arm	3.75	-	Whole	2.6	<0.4	3.4	131	0.74	39	1.4	168
	5.12	-	Whole	3.9		2.7	116	0.68	27	1.4	170
	6.34	-	Whole	4.2		2.7	104	0.66	35	1.5	168

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Hardyhead 16 Aug. 1978 Resides Jetty	4.04 6.09	-	Whole Whole	1.9 2.2	N.A. N.A.	3.1 2.8	118 108	0.83 0.88	18 18	1.5 1.6	181 167
Leatherjacket 10 Jan 1979 Resides Jetty	4.3	-	Whole	4.1	<0.5	2.9	17.3	N.A.	26	4.6	61
Luderick 11 May 1978 North Arm	18.9 22.5 32.9	122 228 676	Liver Muscle Liver Liver Skin Muscle	1.4 1.5 1.1	<0.5 2.3 <0.5	60 80 180	226 760 525	N.A. 0.35 N.A. 0.25 N.A. 0.05 0.15	4.1 6.0 2.6	6.0 7.0 9.5	139 282 222
Luderick 9 Aug. 1978 Newlands Arm	33.3 38.9	714 1107	Liver Muscle Liver Muscle	1.1 1.9	2.9 7.5	205 260	1575 675	N.A. 0.35 N.A. 1.05	4.85 2.6	9.0 9.0	243 560
Luderick 25 Oct 1978 North Arm	21.1	158	Liver Gills Muscle	1.6 1.2	1.5 <1.4	107 <1.1	483 153	0.67 0.06 0.45	3.7 181	5.2 1.62	191 58.7
Luderick 15 Aug. 1978 Nungurner	32.7 32.7	530 539	Liver Gills Muscle Liver Muscle	3.2 1.6 3.1	1.5 <0.50 <0.50	157 <2.0 42	706 324 559	0.47 0.19 0.23 0.50 0.27	4.2 78 3.2	11 3.0 9.6	184 77.8 180
Pipefish 25 Oct 1978 Bunga Arm	44.5	270	Liver Bile Duct Muscle	4.4 2.4	14.9 <0.3	2290 10	1480 56	0.40 N.A. 0.49	4.2 6.0	8.0 2.2	2360 149
	-	-	Whole	<10	<15	13.4	373	N.A.	94	1.1	N.A.

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Salmon 25 Oct 1978 North Arm	8.2		Viscera	2.7	<1.5	0.83	117	0.32	5.0	5.7	108
	8.2		Muscle Whole	2.1	<0.6	2.9	57	0.47 0.45	2.5	2.9	73
Sand Mullet 11 May 1978 North Arm	23.9	189	Liver Muscle	2.6	<0.6	49	787	2.9 0.20 0.10	0.09	4.2	26 50.2 193
	25.4	226	Skin Liver	2.2	<0.5	50	1645	0.20	3.5	5.5	234
	24.6	204	Muscle Liver	2.0	<0.5	95	1460	0.15 3.0	3.1	6.5	129
	24.8	196	Muscle Liver	3.3	<0.6	39	806	0.15 0.05	2.7	4.9	286 78.9
	24.7	208	Skin Liver Muscle	1.8	<0.6	33	575	1.8 0.15	2.1	3.1	
Sand Mullet 8 Aug. 1978 Nicholson River	25.9	159	Liver Muscle	6.5	<0.6	162	1450	0.60 0.40	2.5	5.4	250
	26.1	167	Liver Gills	6.4 1.2	<0.6 <0.6	122 4.5	1260 139	0.65 0.20 0.35	2.2 38	4.8 1.3	171 65.1
	25.7	162	Muscle Liver Muscle	3.1	<0.6	203	1710	0.80 0.25	<2.9	8.7	269
Sand Mullet 26 Oct 1978 North Arm	34.0	420	Liver Gills Muscle	6.5 2.1	<0.5 0.48	45 <1.5	1350 246	0.45 0.20 0.18	5.8 57	6.2 2.1	111 58.5
Scad 16 Oct. 1978 North Arm	25.6	141	Gills Muscle	4.3	<0.5	<1.0	176	0.27 0.93	9.0	4.9	59
	24.5	125	Muscle					0.51			
	22.9	111	Muscle					0.85			
	combined		Liver	6.0	2.0	7.5	273	0.77	2.7	9.0	60

Appendix XII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Sea Mullet 11 May 1978 North Arm	23.8	188	Liver	2.3	<0.6	10.4	453	2.72	1.6	4.4	62
			Muscle					<0.05			
	30.9	408	Liver	2.5	<0.6	733	606	2.54	2.7	25	214
			Muscle					0.05			
	24.6	234	Liver	4.1	<0.6	21.7	479	2.01	2.1	5.1	87
			Muscle					0.05			
	27.5	341	Liver	1.7	<0.6	57	366	1.25	2.6	4.2	81
			Muscle					<0.05			
	22.9	181	Liver	5.9	<0.6	315	537	4.49	2.4	13	155
			Muscle					<0.05			
Sea Mullet 8 Aug. 1978 Nicholson River	27.9	193	Liver	2.7	<0.6	1900	1120	0.40	2.7	45	110
			Muscle					0.05			
	33.9	414	Liver	2.1	<0.6	1470	977	0.34	3.3	40	133
			Muscle					0.10			
	37.9	521	Liver	1.9	<0.6	893	1180	0.25	2.3	22	113
			Muscle					0.02			
	39.4	674	Liver	4.2	<0.6	558	907	0.26	3.6	17	228
			Muscle					0.04			
	50.5	>1.2 kg	Liver	1.3	<0.6	920	1490	0.34	2.1	30	292
			Muscle					0.09			
			2.2	<0.6	2.4	130	0.07	77	2.7	63	
Sea Mullet 10 Aug. 1978 Salt Creek	49.7	>1.2 kg	Liver	4.6	<0.5	658	1020	0.19	1.9	11	208
			Gills	0.93	<0.5	<2.1	194	0.18	117	1.6	63.6
			Muscle					0.03			
	51.8	>1.2 kg	Liver	0.73	<0.5	222	586	0.17	1.3	7.1	255
			Muscle					0.04			
	46.6	>1.2 kg	Liver	1.4	0.78	1200	1250	0.25	2.9	13	460
			Muscle					0.07			
	46.6	1104	Liver	3.6	<0.5	622	1610	0.16	2.2	13	388
			Muscle					<0.01			
	39.1	630	Liver	5.0	0.46	475	1160	0.14	2.6	6.5	107
		Muscle					0.07				
38.9	555	Liver	2.1	0.51	539	1380	0.19	3.5	21	130	
		Muscle					0.01				

Appendix XII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Sea Mullet 11 Aug. 1978 Lower Tambo River	38.3	620	Liver	9.4	<0.4	645	1460	1.05	3.5	17	154
			Muscle					0.15			
	33.6	430	Liver	3.6	<0.4	786	594	0.60	1.5	24	111
			Muscle					0.13			
	39.8	550	Liver	7.4	<0.4	173	11500	1.2	5.3	13	322
			Muscle					0.58			
	36.3	495	Liver	2.2	<0.4	620	1560	1.0	3.4	14	209
			Muscle					0.06			
	34.9	458	Liver	2.8	<0.4	384	1320	0.70	3.2	13	251
			Muscle					0.08			
43.2	805	Liver	2.3	<0.4	67	719	0.59	1.6	4.2	122	
		Muscle					0.06				
Sea Mullet 15 Aug 1978 Nicholson River	43.5	980	Liver	6.8	<0.4	460	826	0.41	1.3	12	110
			Muscle					0.05			
	30.0	270	Liver	7.6	<0.4	176	730	N.S.	2.1	7.3	99.3
			Muscle					0.15			
	31.2	280	Liver	5.6	<0.4	1780	732	1.3	3.5	54	188
			Muscle					0.10			
	35.2	415	Liver	3.1	0.69	681	998	0.98	3.6	28	137
			Muscle					0.11			
	29.5	235	Liver	4.9	<0.4	550	1270	0.91	2.1	12	143
			Muscle					0.09			
	28.7	240	Liver	6.7	<0.4	217	988	0.79	1.9	5.5	151
			Muscle					0.14			
	29.2	230	Liver	2.9	<0.4	619	968	N.S.	4.0	13	178
			Muscle					0.08			
28.6	250	Liver	3.5	<0.4	149	1210	0.80	2.5	6.5	173	
		Muscle					0.10				
27.1	205	Liver	6.1	<0.4	320	1360	N.S.	3.8	7.0	112	
		Muscle					0.11				
Shrimp 16 Aug. 1978 Newlands Arm	3.82		Whole	4.7	<0.4	48.3	38	1.64	22	1.4	69

Appendix XII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Silver Trevalliy 11 May 1978 North Arm	19.0	137	Liver	4.8	<1.0	25	720		5.5	9.0	218
			Muscle					0.45			
	15.2	81.3	Liver	12	<1.5	32	720		5.5	12.5	207
			Muscle					0.20			
	12.9	44.7	Liver	2.5	<7	30	730		8.5	6.0	146
	25.2	329	Liver	8.0	6	35	500		11	8.0	229
		Muscle					0.60				
			Skin					0.11			
	20.4	188	Liver	9.5	1.0	15	415		8.0	8.0	175
			Muscle					1.50			
Silver Trevalliy 25 Oct. 1978 North Arm	29.5	308	Liver	12	16	10	386	1.4	6.3	9.3	164
			Gills	6.6	<0.50	<2.8	212	0.12	8.6	4.1	64
			Muscle					0.54			
	26.0	224	Liver	7.1	2.6	25	540	1.5	5.3	12	143
			Muscle					0.46			
Silver trevalliy 25 Oct 1978 Bunga Arm	17.7	61	Liver	1.5	<1.0	5.8	450	N.A.	2.6	5.1	72
			Gills	1.7	<3.0	8.5	214	N.A.	7.0	4.5	83
			Muscle					0.50			
Sole 9 Mar 1978 Mitchell R.	17.3	95	Liver	0.35	<0.5	15.5	675	<0.05	3.75	7.5	72
			Skin					0.05			
			Muscle								
	16.5	106	Liver	0.25	<0.5	4.45	320	<0.05	3.35	7.0	77.0
			Skin					<0.05			
			Muscle					<0.05			
18.5	143	Liver	0.36	<1.0	195	535	<0.05	5.5	16.5	90	
		Skin									
		Muscle						0.10			

Species Date Location	Length (cm)	Weight (g)	Tissue	As	Cd	Cu	Fe	Hg	Mn	Se	Zn
Tailor											
25 Oct. 1978 Bunga Arm	32.9	365	Liver	1.1	0.55	13	499	1.2	2.8	7.0	71.5
			Gills	1.8	<0.6	1.3	148	N.A.	5.4	4.5	60.29
	28.0	208	Muscle					1.09			
	27.7	194	Liver					1.37			
	27.5	188	Muscle	2.1	<1.0	8.6	1006	N.A.	3.6	5.5	72.62
			Liver	2.1	<1.0	8.6	1500	1.54	5.9	8.0	116.3
			Muscle					1.78			
Tailor											
26 Oct 1978 North Arm	31.0	269	Liver	0.59	<0.5	8.4	753	1.1	1.9	5.3	58.8
			Gills	1.6	<0.67	3.0	118	0.46	6.7	2.4	63.8
	29.1	234	Muscle					1.30			
			Liver	1.6	<1.0	9.1	609	1.8	<2.5	4.4	76.4
	28.4	206	Muscle					1.59			
			Liver	2.0	<1.0	8.5	562	1.2	<2.5	6.3	68.1
	28.0	187	Muscle					1.77			
			Liver	1.6	0.68	9.6	646	1.6	4.0	10	95.1
	21.3	85	Muscle	2.2	6.4	<19	757	1.70	<11	<4.3	103
								0.79			
Tailor											
10 Aug. 1976 Raymond Is.	17.3	49.8	Muscle					0.53			
	20.0	73.1	Muscle					0.64			
	17.1	49.9	Muscle					0.54			
	13.3	18.9	Muscle					0.49			
	14.4	29.1	Muscle					0.50			
	combined		Liver	0.68	<0.5	14	387	0.32	<1.5	8.9	55
Tupong											
16 Aug. 1978 Newlands Arm	14.1	-	Whole	1.8		2.9	38	0.42	20	0.7	68
Tupong											
25 Oct 1978 North Arm	18.2	53.7	Viscera	1.3	<1.0	6.7	675	0.33	13	4.4	159
			Gills	1.1		5.6	199	N.S.	23	1.9	87
			Muscle					0.64			

Appendix XIII. Concentrations of mercury in fish tissues (ug/g, dry weight)

Species Date Location	Length (cm)	Weight (g)	Tissue	Hg
Bream				
4 Dec. 1977				
Boxes Creek				
	22.5	107	Muscle	0.60
	20.5	142	Muscle	0.70
	20.0	122	Muscle	0.25
	17.5	83	Muscle	0.50
	18.0	93	Muscle	0.35
	18.0	89	Muscle	0.30
	17.5	83	Muscle	0.40
	18.0	87	Muscle	0.40
	18.0	83	Muscle	0.65
	18.5	91	Muscle	0.50
	17.5	74	Muscle	0.45
	17.0	68	Muscle	0.30
	17.0	70	Muscle	0.30
	18.3	86	Muscle	0.25
	18.0	78	Muscle	0.30
	17.5	73	Muscle	0.25
	17.5	75	Muscle	0.35
	16.0	58	Muscle	0.30
	16.0	58	Muscle	0.25
	16.3	61	Muscle	0.20
	17.0	70	Muscle	0.40
	16.5	55	Muscle	0.35
	16.5	60	Muscle	0.65
	16.5	60	Muscle	0.40
	17.0	62	Muscle	0.40
	16.3	58	Muscle	0.30
	16.0	61	Muscle	0.35
	15.7	53	Muscle	0.30
	16.0	50	Muscle	0.40
	14.5	41	Muscle	0.30
	15.6	56	Muscle	0.40
	15.0	48	Muscle	0.30
	15.3	47	Muscle	0.30
	14.5	44	Muscle	0.30
	14.3	40	Muscle	0.20
	15.0	46	Muscle	0.40
	15.5	47	Muscle	0.55
	15.0	46	Muscle	0.55
	14.3	38	Muscle	0.30
	14.2	37	Muscle	0.25
	14.7	47	Muscle	0.35
	15.0	47	Muscle	0.30
	15.0	47	Muscle	0.30
	13.6	34	Muscle	0.40

Appendix XIII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	Hg
Dusky Flathead 29 Nov. 1977 North Arm	61.0	1540	Liver	1.95
			Muscle	2.35
	63.6	1800	Liver	4.80
			Muscle	2.25
	61.9	1630	Liver	5.55
			Muscle	2.70
	69.2	2070	Liver	8.30
			Muscle	2.15
	63.5	1720	Liver	1.60
			Muscle	2.00
Dusky Flathead 30 Nov. 1977 North Arm	62.5	1745	Liver	4.45
			Muscle	2.25
	45.5	615	Muscle	1.25
Dusky Flathead 13 Dec. 1977 North Arm	48.2	725	Liver	1.85
			Muscle	1.30
			Gut contents	0.35
	60.7	1390	Liver	6.85
			Muscle	2.60
	62.0	1515	Liver	4.05
			Muscle	2.50
			Gut contents	0.30
	63.0	1715	Liver	3.50
			Muscle	2.05
	64.8	1795	Liver	6.70
			Muscle	2.45
	70.2	2280	Liver	2.95
		Muscle	2.15	
78.5	3290	Liver	2.10	
		Muscle	1.90	
		Gut contents	0.70	

Appendix XIII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	Hg
Eel 6 April 1978 North Arm	119	-	Liver	0.60
	-	487	Muscle	0.90
	-	487	Liver	0.50
	-	292	Muscle	0.90
	-	292	Liver	0.45
	-	292	Muscle	1.10
Eel 25 Oct. 1978 Lake Wellington	71.0	-	Muscle	1.79
	41.0	-	Muscle	0.88
	43.0	-	Muscle	0.75
	36.5	-	Muscle	0.58
	60.0	-	Muscle	1.17
	69.0	-	Muscle	0.73
Eel 31 Oct. 1978 Thomson River	47	184	Muscle	1.87
	32	54	Muscle	1.32
Luderick 4 Dec. 1977 Boxes Creek	17.7	98	Muscle	0.05
	17.5	96	Muscle	0.10
Luderick 5 April 1978 North Arm	33.2	-	Liver	0.85
	33.2	-	Muscle	0.30
	30.5	-	Liver	0.45
	30.5	-	Muscle	0.25
	30.0	-	Liver	0.60
	30.0	-	Muscle	0.20

Appendix XIII (continued)

Species Date Location	Length (cm)	Weight (g)	Tissue	f
Sea Mullet 13 Dec 1977 North Arm	50.8	1615	Liver Muscle	0 0
Sea Mullet 5 April 1978 North Arm	37.1	-	Liver Muscle	0 0
Sea Mullet 6 April 1978 North Arm	49.5	-	Liver Muscle	0 <0
	50.4	-	Liver Muscle	0 0
	49.6	-	Ovaries Liver Muscle	0 0 0
	46.5	-	Ovaries Liver Muscle	0 0 0
	46.5	-	Liver Muscle	0 0
	49.0	-	Liver Muscle	0 0
	47.2	-	Ovaries Liver Muscle	0 0 <0
	43.5	-	Ovaries Liver Muscle	0 0 0
	41.6	-	Liver Muscle	0 0
	47.5	-	Liver Muscle	0 <0
	51.0	-	Liver Muscle	0 0
	43.3	-	Ovaries Liver Muscle	0 0 0
Tailor 25 Oct. 1978 Duck Arm	16.4 16.6	38.5 41.3		