

# **OCEANOGRAPHICAL STATION LIST**

**of Investigations made by the Division of Fisheries,  
Commonwealth Scientific and Industrial Research  
Organization, Australia**

## **Volume 5**

**Estuarine Hydrological Investigations in  
Eastern Australia, 1940-50**

**Queensland: Nerang and Coomera Rivers, Moreton Bay  
and Brisbane River, Logan River, Dunwich Oyster Lease;  
New South Wales: Richmond River, Clarence River,  
Macleay River, Hastings River, Manning River, Port  
Stephens, Tilligerry Creek, Hawkesbury River**

**Compiled by D. J. Rochford**

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION, AUSTRALIA  
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Some errata have been discovered in volume 4 of this series.  
The correct value is listed in the following table:-

Page	Date	Depth	Temp.	Cl‰	σ <sub>t</sub>	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> . P	NO <sub>3</sub> . N
11	4/xii	50 m	--	--	--	--	--	Delete pH	--	--
14	14/v	40 m	--	--	--	--	--	--	Delete organic P	--
14	6/ix	40 m	--	--	--	--	--	--	Delete inorganic P	--
33	13/viii	10 m	--	19.62	--	--	109	--	--	--
38	6/xii	40 m	--	--	--	4.93	--	--	--	--
52	17/i	20 m	--	--	--	5.20	--	--	--	--
		30 m	--	--	--	5.24	--	--	--	--
		40 m	--	--	--	5.20	--	--	--	--
		50 m	--	--	--	5.15	--	--	--	--
50	11/xii	10 m	18.60	--	--	--	--	--	--	--
70	2/i	10 m	--	--	--	--	--	--	Delete organic P	--
71	1/viii	20 m	--	--	--	--	--	--	Delete Phosphate Data	--
84	21/vi	0m	--	--	23.15	--	--	--	--	--
		10 m	--	19.42	25.91	--	--	--	--	--
88	9/i	45 m	--	--	--	--	--	--	Delete organic P	--
94	11/xi	0 m	--	--	--	--	--	Delete pH data at all depths	--	--
		10 m	--	--	--	--	--	--	--	--
		20 m	--	--	--	--	--	--	--	--
		30 m	--	--	--	--	--	Delete pH data at all depths	--	--
		40 m	--	--	--	--	--	--	--	--
		50 m	--	--	--	--	--	--	--	--
110	29/xi	0 m	--	--	--	--	--	--	Delete organic P	--
		20 m	--	--	--	--	--	--	Delete inorganic P	--

# OCEANOGRAPHICAL STATION LIST

## ESTUARINE HYDROLOGICAL INVESTIGATIONS IN EASTERN AUSTRALIA 1940-50

QUEENSLAND: NERANG AND COOMERA RIVERS, MORETON BAY AND BRISBANE RIVER, LOGAN RIVER, DUNWICH OYSTER LEASE. NEW SOUTH WALES: RICHMOND RIVER, CLARENCE RIVER, MACLEAY RIVER, HASTINGS RIVER, MANNING RIVER, PORT STEPHENS, TILLIGERRY CREEK, HAWKESBURY RIVER

Compiled by D. J. ROCHFORD

### I. INTRODUCTION

With the wartime cessation of oceanographical work, the hydrological work of the C.S.I.R.O. Fisheries Division was concentrated upon the onshore and estuarine environment.

The hydrological data contained in this volume have been utilized in a recent general survey of the Australian estuarine environment (Rochford 1951) and any further details concerning the development and implications of the estuarine investigations can be obtained by reference to that publication.

### II. METHODS

Methods of collection and analysis are the same as those given by Rochford (1951).

### III. TIDAL CORRECTIONS

In order that the time of storage prior to analysis could be kept at a minimum, water sampling at estuarine stations had to be carried out as soon as the station was occupied without waiting for any particular phase of the tide. It was hoped that a correction based upon the time lag between sampling and a particular height of tide could be applied to the hydrological data thus obtained. As discussed by Rochford (1951), however, the effort required is very great and can in any case be applied only to those estuarine systems for which sufficient accurate tidal information is available.

As the Georges River-Botany Bay, Port Hacking, and Hawkesbury River systems are the only eastern Australian systems for which such tidal data are available, it was thought best to leave the hydrological data in these volumes uncorrected. In the appropriate paper dealing with these estuarine systems, tidal corrections will be applied as required.

### IV. UNITS

Units are those used by Rochford (1951).

### V. LOCATION OF STATIONS

The data have been collected from a number of stations on the eastern Australian coast. Table 1 gives the detail of the system's stations dealt

with in this volume and Figure 1 shows the locations of the systems along the eastern Australian coast. Where the sampling stations are all situated within the channel of the estuarine system, the distance of each station

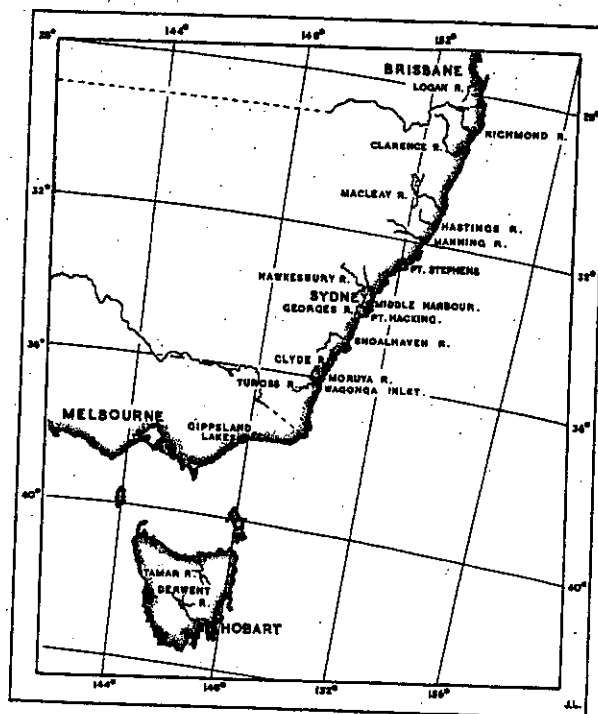


Fig. 1.—Location of the principal estuarine systems referred to in the text.

from the entrance of the system has been given and will enable the longitudinal relationship of each to be established. In certain cases, however, the distribution of stations is so random that no attempt has been made to give a distance reference.

In the subsequent papers dealing with these systems, station maps giving the location of each station will be included.

#### VI. PERSONNEL

The laboratory analyses of the data have been the responsibility of Mr. D. J. Rochford and the hydrology staff at Cronulla. The field collections have been carried out by Messrs. C. Wirrell, H. Hollis, C. Brown, and G. Kitchen, to whose perseverance and loyalty the whole programme is indebted.

#### VII. REFERENCES

ROCHFORD, D. J. (1951).—Studies in Australian estuarine hydrology. I. Introductory and comparative features. *Aust. J. Mar. Freshw. Res.* 2: 1-116.

TABLE 1

System	Station No.	Distance from Mouth (miles)	Location
Queensland			
Nerang and Coomera Rivers	1	—	Nerang River, Southport
	2	—	Upper Nerang River
	3	—	Coompabah
	4	—	Coomera River Bridge
Moreton Bay and Brisbane River	1	—	Off Bribie Island Light
	1a	—	Off Toorbul Point
	2	—	Off St. Helena Island
	2a	—	Mouth of Pine River
	3	—	Brisbane River, Lytton
	4	—	Brisbane River, Kangaroo Point
	5	—	Brisbane River, Indooroopilly
Logan River	1	0	Channel off Amity Point
	2	7.6	Channel Dunwich to Peel Island
	2a	3.8	Channel Cleveland to Peel Island
	3	2.4	Channel off Pat's Island
	4	4.4	Channel off Panikin Island
	5	4.3	Entrance Logan River
	6	4.0	Alberton
	7	6.0	Beenleigh
	8	16.0	Logan Village
	9	10.0	McLean Bridge
New South Wales			
Richmond River	1	0	East Ballina
	2	2.0	West Ballina
	3	5.0	Burn's Point
	4	8.5	Empire Vale
	5	12.5	Wardell
	6	17.5	Broadwater
	7	28.5	Woodburn
	8	41.5	Coraki
	9	55.0	Tathan
	10	69.0	Casino
	11	90.0	Kyogle
	12	114.0	Unungarra
Clarence River	1	0	Yamba
	2	4.0	Lake's Entrance
	3	7.5	North Arm Bridge
	4	12.0	Harwood
	5	16.0	Maclean, South Arm Bridge
	5a	16.5	Maclean, North Arm Bridge
	6	23.0	Lawrence
	7	29.0	Cowper
	8	34.0	Ulmorra
	9	42.0	Grafton
	9a	44.0	Southampton Ferry
	10	52.0	Clifden
	11	63.0	Bowden Bridge

TABLE 1 (continued)

System	Station No.	Distance from Mouth (miles)	Location
Clarence River	12	67.0	Copmanhurst
	13	97.0	Buccarumbi
	14	104.0	Nymboida
	15	158.0	Tabulam
Macleay River	1	0	South-west Rocks
	2	5.0	Jerseyville
	3	10.0	Kinchela
	4	15.0	Smithtown
	4a	21.0	Frederickton
	5	28.0	Kempsey
	6	32.0	Greenhills
	6a	50.0	Turner's Flat
	7	66.0	Hickey's Creek
	8	82.0	Bellbrook
Hastings River	9	102.0	Comara
	10	120.0	George's Creek
	1	0	Port Macquarie
	2	7.0	Blackman's Point
	2a		Wilson's River, Telegraph Point
	3	12.0	Sancrox
	4	16.5	Wauchope
	4a	20.5	Bain's Bridge
	5	29.0	Huntingdon
	5a	40.0	Cowangarra
Manning River	6	55.0	Ellenborough
	7	56.0	Ellenborough R.
	1	0	Harrington
	2	3.0	Landsdowne River Bridge
	3	5.0	Croki
	4	10.0	Chinni-Chinni
	5	13.5	Cundletown
	6	18.0	Taree
	7	30.0	Wingham
	8	39.0	Killawarra Bridge
	9	51.0	Mount George
Port Stephens	10	57.0	Bulliac
	11	70.0	Gloucester
	1	0	Entrance to Port Stephens
	2	2.5	Nelson's Bay
	3	4.5	Pindimar Wharf
	4	5.5	Salamander Bay
	5	8.0	The Rip
	6	8.3	Pindimar
	7	10.3	Fame Cove
	8	12.3	Tea Gardens
9	12.7	Between Cabbage Tree Island and Tilligerry Creek	

TABLE 1 (continued)

System	Station No.	Distance from Mouth (miles)	Location
Port Stephens	9a		Tilligerry Creek
	10	13.0	Mouth of Little Swan Bay
	11	13.3	Mouth of Big Swan Bay
	12	16.5	Fish Wharf, Karuah
	13	24.5	Karuah River, Allworth
	15	30.5	Karuah River, Booral
	14	39.5	Karuah River, Stroud Road
	16	—	Windywoppa
	17	—	Cabbage Tree
	18	—	Midline Cabbage Tree and Rip
	19	—	Karuah River
	20	—	Pile off Cabbage Tree Island
	21	—	1 mile above Karuah Jetty
	22	—	Midline to Nelson's Bay
23	—	Pipeclay Creek	
Tilligerry Creek	1	—	Gibber Point
	1a	—	Gibber Point East
	1b	—	Gibber Point West
Hawkesbury River	2	—	Salt Ash
	1	0	Channel between Hawk Head and Barrenjoey
	2	1.0	Pittwater off Rock Point
	3	2.5	Bobbin Head, Cowan Creek
	4	4.5	Channel between Juno and Challenger Head
	4a	5.0	Pittwater off Taylor's Point
	5	8.25	Mullet Creek
	6	9.5	Channel under Railway Bridge
	7	11.5	Mooney Creek
	8	13.5	Channel opposite Milson Island
	9	15.5	Berowra Creek
	10	17.5	Channel off Pumpkin Point
	11	21.5	Channel off mouth of Mangrove Creek
	12	26.0	Channel Patty's Bight
	13	30.5	Channel at Singleton Mill
	14	35.0	Channel at Laughtondale
	15	39.5	Channel at Wiseman's Ferry
	16	45.5	Macdonald River
17	51.5	Hawkesbury River at Portland Ferry	
18	55.5	Colo River at Upper Colo	
19	60.5	Hawkesbury River at Sackville	
20	69.5	Hawkesbury River at Clarence Reach	
21	78.5	Hawkesbury River at Windsor	
22	88.0	Nepean River at East Richmond	
23	98.0	Nepean River at Penrith	
24	130.5	Nepean River at Camden	
25	145.5	Cataract River	
26	148.0	Cordeaux River	

Location: NERANG RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950 28. vii	1	S	18.55	16.88	4.70	83	7.95	15-16	46
	2	S	15.85	0.02			6.19	26-15	256
	3	S			3.94			9-32	70
	4	S		.07	5.85			43-7	496
14. viii	1	S	18.35	12.01	5.57	93	8.23	13-3	29
	2	S	15.55	0.08	6.55	92	6.32	18-3	127
	3	S	19.55	9.55	5.90	98	7.87	9-27	7
	4	S		0.20	7.50			20-9	346
21. ix	1	S	21.45	8.55	5.70	97		0-20	0
	2	S	20.75	0.08	.90	91		9-11	0
	3	S	22.65	15.21	4.16	78	7.31	0-15	10
	4	S	21.40	3.86	5.78	93	.31	0-21	8
1. xi	1	S	23.60	18.21	5.27	103		11-14	0
	2	S	25.70	0.07	6.17	103		52	10
	3	S	30.10	16.40	5.08	110		8-30	14
	4	S	27.20	5.52	.32	96		8-16	0
23. xi	1	S	22.95	11.46	5.60	101		15-9	0
	2	S	22.80	0.07	.38	86		30-10	0
	3	S	23.80	10.67	4.48	81		16-15	9
	4	S	22.20	0.33				80-0	251
15. xii	1	S	25.90	13.40	6.85	132		11-4	0
	2	S	26.60	0.04	5.50	95		20	15
	3	S	30.20	9.68	3.46	68		22-7	0
	4	S	27.60	0.92	5.24	91		18-9	0

Location: MORETON BAY - BRISBANE RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
4- 5. vii	1a	S	15.75	15.88	5.47	91		4-7	250
	2	S	16.90	.86	6.15	105		31-4	75
		D	16.40	17.47	5.97	103		25-0	250
	2a	S	15.60	15.90	6.00	100		7-19	33
1- 4. viii	1	S	19.20	9.85	5.30	88	7.96	7-20	0
		D	18.95	.90	4.96	82	.83	9-18	0
	1a	S	16.70	3.97			.71	11-10	0
	2	S	19.35	11.67	5.07	86	.64	29-6	7
		D	18.50	16.59			8.10	16-12	0
	2a	S	18.70	7.00	.07	81	7.84	22-8	84
	4	S	17.65	0.11	4.50	66	6.83	81-0	351
	5	S		.07	5.08			63-0	326
		D		.05	.06			70-0	325
1- 5. ix	1	S	18.65	16.61	6.00	106	7.98	4-14	0
		D	18.60	17.15	5.84	104	8.03	2-13	0
	1a	S	18.90	16.30	.84	103	.42	0-15	0
	2	S	18.25	17.16	.84	103	.03	4-22	0
		D	17.60	.33	.58	98	.45	16-37	35
	2a	S	17.65	13.84	.34	90	.17	14-9	5
		D	17.60	.96	.37	91	.13	11-17	0
	3	S	17.35	.44	.37	90	7.55	32-12	41
	4	S	18.10	2.67	4.85	73		44-12	233
	5	S	17.95	0.19			6.99	61-8	278
		D	17.85	.12	.92	75	7.05	64-2	276
3. x	1	S	22.15	18.35	5.30	101	8.21	11-70	0
		D	21.90	.56	.34	102	.21	6-0	0
	1a	S	23.05	17.85	4.92	95	.21	9-0	0
	2	S	21.90	.44	.92	93	.12	19-0	0
		D	21.50	.72	.85	91	7.83	51-10	93
	2a	S	22.90	16.99	5.38	102	8.09	14-0	0
1- 2. xi	2a	S	24.50	17.70	4.90	97		14-4	0
		D	23.70	.72	2.52	49		10-9	0
	3	S	21.70	11.60	3.04	52		44-14	154
		D	22.20	12.57	.26	59		34-2	106
	4	S	23.30	6.68	2.52	43		66-16	375
	5	S	24.00	0.17	3.68	60		93-3	430
	D	24.20	.14	.60	59		100-0	506	

Location: MORETON BAY - BRISBANE RIVER

Date	Station	Depth	Temp. °C.	Cl <sup>-</sup> /‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
23- 24. xi	3	S	23.00	11.07	3.36	60		48-0	128
	4	S	22.80	5.73	2.36	40		56-0	293
		D	21.45	6.53	.32	39		58-0	680
	5	S	22.40	0.10	3.58	57		90-0	228
		D	22.20	.14	2.30	36		101	427
22. xii	1	S	24.30	18.31	5.35	106		7-5	0
		D	24.30	.31	.40	107		9-9	0
	1a	S	24.60	17.43	4.82	93		3-6	0
	2	S	24.55	18.77	5.46	109		9-1	0
		D	24.40	.86	.35	107		11-0	0

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949 3. viii	1	S	16.00	11.10	6.44	103	8.18	12-10	0
	2	S	16.30	19.44	5.63	98	.28	3-2	2
		D	18.00	.50	6.29	114	.94	4-0	4
	2a	S	16.00	.48	.03	105	.17	3-1	0
		D	16.10	.50			.39	5-8	0
	3	S	16.10	.57	5.79	101	.09	5-2	0
		D	15.70	.48	.83	101	.32	6-0	0
	4	S	15.20	.34	.88	101	.24	7-6	0
18- 20. x	6	S	15.30	4.58	6.51	95	7.97	28-0	0
	7	S	14.05	0.31	.22	85	.92	32-0	20
	8	S	13.05	.21	.74	90	.37	38-2	12
	1	S	21.75	19.63	5.22	100		6-6	6
		D	21.90	.67	.23	101		8-0	7
	2	S	22.50	.60	.23	102		5-5	7
		D	23.60	.50	.03	100		9-0	7
	2a	S	22.65	.53	4.94	97		10-5	37
	D	23.00	.57	.94	97		7-8	26	
1950 10- 13. i	3	S	22.55	.37	.97	97	8.19	3-11	25
		D	22.90	.59	5.10	100	.09	6-24	17
	4	S	23.00	.64				10-0	16
	5	S	24.20	15.63	.30	102		19-8	11
	6	S	25.65	10.70	.40	101	7.57	25-28	59
	7	S	24.80	3.13	4.74	80	.53	54-65	459
	8	S	25.50	0.23	.75	79	6.99	57-73	152
	1	S	24.30	19.66	4.90	99	8.16	4-4	0
	D	24.40	.61	.87	98	.21	2-4	11	
1950 10- 13. i	2	S	24.80	.43	.66	94	.15	5-4	10
		D	24.50	.49	.87	98	.18	5-3	4
	3	S	27.40	.42	.44	94	6.25	7-20	6
		D	27.05	.45	.17	87	8.04	8-2	10
	4	S	27.00	.64	.25	89	7.98	11-2	3
	5	S	27.80	17.27	.46	93	.96	19-9	13
	6	S	26.65	12.25	.94	95	.61	35-6	104
	7	S	27.20	4.83	.71	85	.54	41-11	238
8	S	27.20	0.31	.59	79	6.89	39-3	92	

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C.	Cl %/oo	O <sub>2</sub>	O <sub>2</sub> %	pH.	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
23- 24.iii	1	S	25.60	18.98	4.95	101	8.23	4-13	0
		D	25.80	19.46	.90	101	.10	5-17	2
	2	S	25.30	18.54	5.06	102	7.95	8-6	0
		D	25.15	19.00	4.96	100	.75	8-9	0
	2a	S	25.30	18.30	5.04	101	8.14	5-5	0
		D	24.90	.42	4.86	97		20-0	27
	3	S	24.40	17.27	.82	95	.04	14-6	4
		D	25.10	.97	.81	96		12-20	3
27.iv- 3.v	4	S	25.60	16.24	.54	90	7.88	13-17	9
	5	S	25.90	1.63	.35	74	.19	45	25
		D	25.40	9.59	3.99	73	.03	43-17	46
	6	S	25.50	0.16	.81	64	6.62	57	44
	7	S	27.35	.11	.87	66	.64	41-92	44
	8	S	24.85	.22	4.09	68	.61	73	77
	1	S	23.70	19.47	4.42	88	8.21	5-10	4
		D	23.30	.38	.65	92	.21	2-7	10
	2	S	22.00	18.75	5.06	97	.19	3-7	4
		D	22.00	.84	.90	113	.27	38-7	5
	2a	S	21.80	.74	4.81	92	.23	8-3	4
		D	21.80	.70	.96	95	.20	7-2	4
	3	S	21.80	.06	5.31	97	.20	9-0	1
		D	21.80	.22	4.98	94	.20	10-10	33
	4	S	23.30		5.39		.15	13-11	10
	5	S	21.40	15.19	4.86	89	.16	22-5	8
		D	23.30	.98	.38	83	.04	26-0	18
	6	S	21.80	4.31	5.20	85	7.51	48-2	117
	7	S	27.10	0.14	4.84	83	6.85	63-0	446
	8	S	20.60	.16	5.12	79	.85	66-0	182

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1950 14. vii	1	S	20.70	19.35	5.55	105	8.21	4-15		
		D	20.65	.31	.22	98	.24	4-15		
	2a	S	17.50	16.66	.33	93	.22	32	5	
		D	17.60	.84	.55	97	.17	19	8	
	3	S	17.40	14.87	.45	93	.22	16-23	0	
		D	17.20	16.12	4.55	78	.08	56	11	
	4	S	17.20	12.27	5.48	90	.12	36-4	180	
	5	S	17.40	8.96	.05	80	7.76	45-0	46	
	6	S	17.10	0.10	3.43	49	.83	90	248	
		S	14.90	.11	.78	52	.07	86-18	195	
	7	D	15.70	.10	4.03	57	6.89	78-23	167	
		S	15.20	.10	5.00	69		70-3	170	
	9	S	15.50	.10	.27	74		81-7	170	
		D	17.30	.10	4.92	71		62-0	198	
	14- 15. viii	1	S	21.70	19.36	5.02	95	8.16	10-8	0
			D	21.45	.40	.08	97	.23	11-11	0
		3	S	17.00	15.68	.57	96	.40	13-2	0
			D	17.10	16.51	.43	93	.24	11-7	3
4		S	16.80	15.27	.52	93	.27	22-13	25	
		D	16.60	17.44	.85	101	7.82	31-34	45	
6		S	15.45	0.15	.83	82	6.93	64-0	27	
7		S	15.40	.15	6.30	88	.96	56-8	269	
		D	15.55	.15	.28	88	.90	63-0	326	
9		S	15.75	.19	5.53	78	7.02	66-5	150	
13- 15. ix	1	S	20.15	19.47	5.40	101	8.21	4-8	0	
		D	20.10	.61	.43	102	.26	3-5	0	
	2	S	20.30	.10				3-14	0	
	3	S	20.50	18.04	.50	102	.15	7-9	0	
		D	20.45	.05	.41	100	.20	15-6	0	
	4	S	20.95	17.55	.39	100	.05	19-6	0	
	5	S	20.80	14.97	.36	97	.03	29-0	0	
		S	20.15	6.22	.44	88	7.90	51-0	0	
	6	D	20.00	.92	.35	87	.72	48-0	0	
		S	20.55	0.39	.96	92	.35	51-16	14	
	7	D	20.85	.30	.94	92	.40	50-2	50	
		S	20.55	.31	6.00	92		72-7	18	

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
11- 14. x	1	S	21.90	19.49	5.22	101		4-48	0
		D	21.25	.47	.58	108			0
	2	S	21.40	18.33	.05	95		11-1	0
		D	21.30	.50	.17	98		11-3	10
	3	S	21.60	.11	.05	95		13-3	0
		D	21.50	.09	4.92	93		11-5	0
	4	S	21.60	17.79	.80	90		11-5	0
	5	S	21.70	15.23	5.00	112		13-27	0
	6	S	23.10	9.00	4.40	77		44-0	5
7	S	23.70	1.40	.60	75		45-0	25	
	D	24.00		.18			61-15	9	
	S	22.10	0.14	5.10	80		59-6	12	
							57-0	54	
24. x	6	S	22.60	1.73	4.92	79		56-0	194
		D	21.75	0.20	.78	77		36-0	19
	9	S	21.00	.19	5.18	83		67-0	273
				.14	4.45	71		65-0	101
10- 11. xi	1	S	20.30	19.53	5.15	97		6-9	0
		D	20.15	.64	4.87	91		10	0
	2	S	22.40	18.75	5.20	100		4-9	0
		D	23.45	.77	.18	100		6-6	0
	2a	S	22.30	.70	4.56	88		4-3	0
		D	22.30	.71	5.08	98		4-5	0
	3	S	21.80	.72	.05	96		6-2	0
		D	22.00	.71	.12	99		2-5	0
	4	S	22.60	.70	.04	97		6-4	0
	5	S	22.20	.07	4.86	93		15-5	0
6. xii	3	S	24.10	17.19	5.50	107		9-6	0
		D	24.50	.51	.41	107		8-7	0
	4	S	24.40	14.55	4.88	93		28-0	0
	5	S	25.00	5.67	.90	86		47-0	34
	6	S	25.20	0.20	3.84	66		77-0	87
	7	S	25.10	.08	5.30	91		85-0	0
	8	S		.05	.94			80-0	16

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950 29- 30. xii	1	S	23.70	19.58	4.97	99		8-0	0
		D	23.70	.58	2.77	55		9-6	0
	2	S			5.03			13-0	0
		D	24.30	.30	4.80	96		12-1	0
	3	S	23.80	18.43	.26	84		19-9	3
		D	23.80	.97	.50	89		12-9	3
	4	S	24.10	.60	.32	86		19-0	5
	5	S	24.00	17.21	5.03	98		26-4	14

Location: DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
27. vi		S	16.75	13.27				9-1	25
28. vi		S	15.45	13.17	5.98	96		7-6	12
29. vi		S	16.40	15.82	6.52	110		6-9	0
2. vii		S	17.90	16.46	6.58	115		3-14	0
3. vii		S	16.30	16.62	6.15	104		19-0	0
4. vii		S	15.20		5.69			9-2	25
5. vii		S	16.40	17.11	6.02	101		3-9	0
6. vii		S	16.45	17.20	5.62	95		3-11	0
7. vii		S		17.15	5.76			3-21	0
10. vii		S	18.40	17.04	6.10	108		11-5	0
11. vii		S	18.35	17.69	5.51	98		3-13	0
12. vii		S	18.90	17.75	5.58	100		4-6	0
13. vii		S	18.55	17.87	5.33	96		4-12	0
14. vii		S		18.28				5-23	0
17. vii		S	18.20	18.31	5.45	97		6-8	0
18. vii		S	18.00	18.14	5.29	94		9-9	0
19. vii		S	19.00	18.32	5.00	91		26-8	0
20. vii		S	19.90	18.71	5.10	93		7-14	0
21. vii		S	19.80	18.84	5.20	96		5-21	0
22. vii		S	20.30	18.85	6.50	121		3-11	0

Location: DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
24. vii		S	19.80	17.54	5.80	106		10-8	0
26. vii		S		17.84	5.65			5-14	
27. vii		S	18.50	17.75	5.57	99		3-16	0
31. vii		S		17.74	5.70			3-11	0
1. viii		S	19.35	16.75	5.37	96		8-12	0
3. viii		S	18.60	16.52	6.05	107		8-5	0
4. viii		S	18.70	16.60	6.35	112		8-9	0
7. viii		S	15.85	16.13	5.80	97		13-17	0
9. viii		S		16.20				7-19	0
10. viii		S	16.10	16.61				8-16	0
16. viii		S	18.00	17.08	5.82	102		9-2	0
17. viii		S	18.10	17.61				9-1	0
18. viii		S	18.90	18.07	5.57	101		12-0	
21. viii		S	18.00	17.83	5.45	96		2-6	0
22. viii		S	16.80	17.38	5.33	92		2-18	0
23. viii		S	17.60	17.48	5.62	99		11-13	0
24. viii		S	17.50	17.59				3-17	0
28. viii		S	18.95	18.60	5.42	99		4-12	0
30. viii		S	18.80	18.50	5.84	106		5-15	0
1. ix		S		18.28				4-15	0

Location: DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
4. ix		S	17.55	17.90	5.41	95		6-10	0
5. ix		S	18.00	17.10	5.50	97		2-20	0
7. ix		S	18.60	18.47	5.41	98		3-20	0
8. ix		S	19.20	18.94				3-12	0
11. ix		S	20.20	18.67	5.80	108		8-9	0
14. ix		S	20.00	18.61	5.42	100		5-10	0
15. ix		S	20.30	19.10				3-14	0
18. ix		S	21.25	18.91	5.39	102		9-2	
20. ix		S	20.50	18.67	5.42	101		0-20	0
21. ix		S	20.05	18.68				0-15	0
22. ix		S	20.30	18.70	5.39	100		0-17	0
26. ix		S	20.90	18.33	5.58	104		8-5	0
27. ix		S	21.00	18.26				9-4	0
28. ix		S	20.00	18.35	5.48	101		10-5	0
29. ix		S	22.00	18.32	5.41	103		13-0	0
2. x		S	23.55	18.30	5.43	106		8-7	0
3. x		S	22.30	18.18				15-4	0
5. x		S	21.75	18.18	5.00	96		6-4	0
6. x		S	21.75	18.29				6-2	0
9. x		S		17.61				13-3	0

Location: DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
10. x		S	18.45	18.05	5.07	91		9-0	0
13. x		S	21.60	19.05	4.88	93		6-11	0
16. x		S	21.45	18.85	5.50	104		4-16	0
19. x		S	21.40	18.80	5.24	99		4-12	0
29. x		S	22.30	18.50				4-9	9
30. x		S	22.75	18.57				0-17	7
2. xi		S	22.90	18.52	5.26	102		10-0	7
3. xi		S	23.30	18.50	5.32	104		11-0	6
7. xi		S	20.90	19.18	5.62	106		11-4	
8. xi		S	21.20	18.97	5.30	100		9-5	0
13. xi		S	22.60	18.58	5.18	100		4-12	0
14. xi		S	22.10	18.84				5-11	0
17. xi		S	23.00	18.81	5.15	100		9	0
21. xi		S	21.55	19.05	5.25	100		8-8	0
28. xi		S	21.40	18.86	5.10	97		12-1	0
29. xi		S	22.10	18.85	5.41	104		6-6	0
30. xi		S	22.60	18.81	5.12	99		7-5	0
1. xii		S	23.50	18.70				7-18	0
5. xii		S	25.20	19.27	6.00	122		4-7	0
6. xii		S	24.20	19.05				4-8	0

Location: DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950 13. xii		S	25.80	19.02	5.32	109		7-7	0
14. xii		S	25.40	19.00	5.63	115		6-7	0
21. xii		S	24.40	19.23	5.96	119		0-13	0
22. xii		S	25.40	19.06	5.50	112		0-13	0

Location: RICHMOND RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
31. viii	1	S	18.80	19.56	5.54	103		6-4	0
	2	S	17.90	.69	.58	101		5	0
	3	S	19.00	18.30	.37	98		13-9	0
	4	S	17.10	16.46	.07	87		19-13	0
	5	S	16.30	7.72	.37	83		17	0
	6	S	16.80	4.86	.69	86		17-0	0
	7	S	16.70	0.31	6.49	93		16	0
	8	S	17.30	.09	.52	94		19-14	0
	9	S	17.10	.09	.47	93		24-16	0
	10	S	19.50	.08	8.00	120		24-16	0
	11	S	16.50	.05	7.55	107		29-9	0
	12	S	15.80	.15				8-21	0
1947									
11- 13. ii	1	S	24.20	10.01	3.98	72		32	38
		D	24.50	9.98	2.45	44		40	24
	2	S	24.50	.16	3.54	64		40	113
		D	25.50	16.08	.96	78		22	28
	3	S	25.20	5.34	.43	60		64	117
	5	S	27.10	0.93	2.17	37		52	162
		D	27.00	.82	1.81	31		58	162
	6	S	28.00	.10	.21	21		58	227
		D	27.40	.12	.11	19		52	193
7	S	27.80	.05	.16	20		52	277	
8	S	25.50	.44	2.95	49		44	314	
9	S	25.50	.02	3.59	60		56	277	

Location: RICHMOND RIVER

Date	Station	Depth	Temp. °C	Cl %/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947 21. ix	1	S	20.50	19.53	5.41	102			
	2	S	20.60	.49	.23	99		4-16	5
	3	S	20.00	14.56	.80	103		9-11	10
	4	S	19.60	.70	.54	98		12-11	14
	5	S	19.70	6.18	.86	94		13-24	34
	6	D	19.90	13.00	4.70	82		16-16	28
	7	S	20.60	2.47	5.78	91		16-13	12
	8	D	19.30	0.13	6.77	112		7	7
	9	S	19.20	.13	5.20	78		10-11	10
	10	S	19.25	.10	.28	79		14-0	29
	11	S	19.25	.12	.88	88		22-12	8
1948 2. 11	1	S	24.30	19.28	5.06	101			
	2	S	24.30	.28	4.88	98		18-0	0
	3	S	26.60	13.03	.84	94		18-3	11
	4	S	26.50	11.54	5.27	100		44-0	41
	5	S	27.10	6.80	.36	98		28-0	7
	6	D	26.40	7.38	.11	93		33-0	3
	7	S	26.20	1.59	4.84	83		36-0	4
	8	D	26.00	0.10	5.14	86		40-3	8
	9	S	25.80	.09	.08	85		42-1	3
	10	S	26.30	.12	4.89	83		41-4	4
	11	S	26.30	.09	.83	82		44-10	5
1948 3. 11	9	S	27.20	0.11	4.67	80		43-3	1
	10	S	27.00	.09	.95	84		91-0	14
	11	S	27.30	.04	5.22	90		85-0	6
							71-1	4	

Location: RICHMOND RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
14-	1	S	19.90	16.75	5.20	93	7.97	9-14	0
16. x	2	S	19.00	.44	.72	102	8.04	9-14	0
		D	19.60	.43	.45	98		14-6	0
	3	S	20.50	14.91	.43	97	.05	12-7	0
	5	S	19.50	8.96	.58	92	.01	21-14	10
	6	S	19.90	3.34	4.76	75	7.76	29-23	105
	7	S	20.50	0.04	.94	76	6.26	39-34	250
		D	20.70	.03	.42	68		36-30	449
	8	S	20.70	.05	5.30	82	.42	44-21	287
		D	21.30	.03	.26	82		46-14	343
	9	S	21.20	.07	.57	86	7.70	62-0	0
	10	S	22.40	.06	6.55	104	6.72	49-5	0
	11	S	23.40	.04	.24	100	.69	42-1	0
1949									
17-	1	S	26.30	18.23	4.73	97		11-7	22
19. iii	2	S	26.50	11.08	3.80	72		31-6	69
	3	S	27.60	6.43	.68	68		45-12	118
	4	S	25.90	0.13	.97	67		26-24	118
	5	S	26.75	.56	.69	63		63-17	254
		D	26.20	3.10	.44	60		53-16	140
	6	S	29.30	0.31	.26	58		57-5	253
	7	S	29.20	.05	.02	53		42-9	176
		D	26.40	.05	.02	51		45-7	129
	8	S	26.20	.05	.86	65		74-1	198
		D	26.20	.05	.88	65		69-20	213
	9	S	26.70	.06	4.07	69		83-9	165
	10	S	27.70	.05	.47	77		110-0	145
	11	S	26.80	.05	5.02	85		58-10	108

Location: RICHMOND RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
27- 28. viii	1	S	18.30	19.34	5.48	100	8.08	15-9	0
	2	S	18.10	17.99	.52	98	.23	15-19	0
	3	S	18.00	15.25	.38	93	.09	19-33	0
	4	S	17.60	10.44	.39	88	7.68	24-26	35
	5	S	17.90	5.94	.25	82	.86	17-28	5
	6	S	17.75	2.84	6.17	93	.89	17-102	45
	7	S	17.70	0.10	7.89	115	.50	3-36	0
	8	D	17.40	.08	.67	111	.02	8-78	6
	9	S	17.10	.08	.83	113	.03	5-52	0
	10	S	19.00	.10	.69	111	.01	6-53	47
	11	S	21.00	.10	6.43	96	.08	42-28	6
			.07	.77	105	.43	49-15	6	
			.04	7.30	103	.03	47-9	0	
1950									
15- 17. i	1	S	24.60	19.20	4.76	96	8.02	17-38	16
	2	S	23.80	18.94	.58	91	.06	20-17	10
	3	S	24.80	19.38	.45	90	.04	28-90	11
	4	S	25.00	.38	.55	92	.06	23-54	10
	5	S	25.30	15.05	.48	87	7.94	2-87	10
	6	D	24.80	14.92	.35	81	.79	31-69	3
	7	S	26.30	9.91	.10	77	.28	26-80	16
	8	S	27.80	1.22	5.21	91	.14	18-52	8
	9	D	27.95	.08	.30	93	.20	21-54	2
	10	S	28.30	0.08	.27	92	6.61	40-71	17
	11	S	28.30	.08	.35	93		0-61	5
			.13			.73	43-97	163	
			.07	6.20	106	.89	46-58	0	
			.12	.27	109	.85	80-109	2	

Location: RICHMOND RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
27- 29. x	1	S	22.80	14.00	4.92	91		23-5	9
	2	S	22.30	8.33	5.02	86		34-5	63
	3	S	22.20	11.08	4.90	87		41-0	92
	4	S	22.60	4.86	5.03	83		42-5	263
	5	S	21.80	0.14	3.80	60		44-14	148
		D	21.90	.16	4.15	65		56-17	205
	6	S	21.70	.06	.91	77		51-14	250
	7	S	21.90	.08	.35	68		50-33	165
		D	21.70	.08	.62	72		52-17	207
	8	S	22.20	.08	.76	75		56-15	225
		D	22.10	.08	.85	76		55-62	214
9	S	22.40	.10	5.36	85		81-1	128	
10	S	23.10	.10	.43	87		76-22	73	
11	S	20.80	.34	.23	81		77-21	154	

Location: CLARENCE RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1946 2. ix	1	S	17.50	19.62	5.35	96		8-0	0	
	2	S		18.80	.70			9-0	0	
	3	S	16.80	13.10	.76	95		8-0	0	
	4	S	16.60	9.09	.55	87		9-0	4	
	5	S	17.70	8.00				5	8	
	6	S	17.40	6.44	.65	88		9-0	17	
	7	S	18.50	4.08	6.19	96		5-5	4	
	8	S	16.70	3.54	.50	96		1-8	17	
	9	S	18.30	1.54	.55	98		6-4	1	
	12	S	18.30	0.05	.65	98		5-5	220	
	14	S	12.70	.02	7.11	94		7-4	12	
	15	S	15.20	.14	.27	101		4-6	5	
	1947 6- 13. 11	2	S	27.50	0.46	3.32	57	39		314
			D	26.50	.58	4.50	77	39		277
		3	S	26.30	8.39	3.27	60	16		55
4		S	25.70	8.79	4.04	74	15		75	
		D	25.20	14.59	.32	81	10		47	
5		S	26.00	0.16			31		277	
6		S	26.00	.06	3.34	85	31		171	
		D	26.20	.06	.30	56	27		210	
7		S	26.50	.05	.61	61	12		150	
		D	26.50	.05	.46	59	27		227	
8		S	26.90	.04	.43	58	23		171	
		D	26.00	.04	.29	55	27		210	
9		S		.02			25		227	
		D		.03	1.96		17		180	
10		S	27.50	.03	4.26	65	6		227	
12	S	27.50	.03	.26	76	10		227		
15	S	26.00	.03	.24	71	56		124		

Location: CLARENCE RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
19. ix	1	S	21.50	19.57	5.48	92		8-10	0
	2	S	21.10	17.78	.62	105		11-9	5
	3	S	18.90	7.83	.67	96		7-10	4
	4	S	19.90	11.33	.66	96		9-5	0
	5	S	21.00	4.41	6.00	97		10-5	10
		D	20.00	5.34	5.67	91		8-10	3
	5a	S	21.70	2.88	6.04	97		6	10
	6	S	19.15	1.28	.07	92		6-5	0
		D	19.60	.54	.05	93		4-2	14
	7	S	19.10	0.43	5.98	90		5-7	11
		D	19.00	.45	.68	85		6-10	7
	8	S	21.00	.12	.80	90		12-7	18
	9	S	21.10	.05	4.95	77		33-0	150
		D	18.70	.04	.84	72		33-2	148
	9a	S	21.10	.04				46-0	84
21. ix	10	S	19.30	.04	5.00	75		31-9	135
	12	S	19.70	.11	.35	81		19-4	74
	15	S	22.90	.69	9.08	146		9	5
1948									
29. i- 1. ii	1	S	24.50	19.19	4.81	96		19-7	43
	2	S	24.80	18.35	5.10	102		17	5
	3	S	24.90	8.23	4.78	86		24	54
	4	S	24.00	.53	.54	79		15-11	402
	5	S	25.60	5.46	5.32	94		22-7	224
		D	25.50	6.00	.13	91		26-2	183
	5a	S	25.60	5.62	4.90	87		22-3	230
	6	S	25.60	1.61	5.60	95		13-8	226
	6	S	25.60	.89	.03	85		20-2	200
		D	25.20	3.17	4.60	79		27-0	252
	7	S	25.80	0.28	.34	73		20-4	297
		D	25.90	.33	.90	82		11-18	338
	8	S	26.40	.07	5.08	86		26-1	462
	9	S	26.50	.06	.05	85		22-0	241
		D	26.20	.05	4.90	83		20-1	462
9a	S	28.00	.06	6.23	108		15-1	286	
10	S	27.25	.04	4.80	82		13-1	445	
12	S	26.30	.10	5.12	86		7-13	127	
15	S	27.80	.10	6.75	117		15-7	20	

Location: CLARENCE RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
14- 18. x	1	S	19.70	17.61	5.59	102	8.08	8-8	6
	2	S	20.70	.02	.08	94	7.82	6-10	5
	3	S	20.40	10.27	.28	90	.91	8-4	3
	4	S	21.00	6.44	.50	88	.97	10-11	33
	5	S	21.40	4.80	.35	87	.06	5-7	15
	6	D	21.50	.80	.38	88		9-1	14
	7	S	20.80	2.30	.94	94	.50	3-8	0
	8	D	21.20	.49	.30	84		5-7	3
	9	S	22.60	0.79	6.29	101	6.97	4-16	8
	10	D	21.30	.78	5.63	88		6-7	8
	11	S	22.00	.07	.80	91	.66	3-13	9
	15	D	21.90	.06	.58	88	.64	5-4	48
	9a	S	21.90	.07	.53	87		5-5	11
	10	S	23.30	.06	6.20	100	7.29	8-7	60
	11	S	24.30	.03	5.70	93	6.37	10-23	91
15	S	24.10	.05	.95	97	.40	8-25	92	
			22.00	.16	.47	86	.68	6-14	23
1949									
17- 21. 111	1	S	25.20	13.81	4.92	94		11-6	24
	2	S	25.20	9.29	5.45	99		11-6	45
	3	S	25.70	0.16	4.14	69		44-14	577
	4	S	25.30	.13	.30	72		31-12	411
	5	S	25.20	.10	.01	67		29-11	182
	5a	D	25.15	.57	3.97	66		50-0	447
	6	S	24.80	.13	.84	63		26-17	289
	7	D	25.20		.95			17-0	139
	8	S	25.10	.05	.79	63		16-13	165
	9	D	25.10	.05	4.51	75		13-16	189
	10	S	25.40	.05	.38	73		13-18	194
	12	S	25.05	.04	.59	76		14-15	259
	15	D	25.50	.04	.62	77		9-18	176
	9a	S	25.30	.03	.44	74		12-19	186
	10	S	25.90	.04	.63	78		13-0	202
12	S	25.70	.03	.66	78		11-18	273	
15	S	24.30	.03	5.35	87		13-13	123	
			25.00	.06	4.32	71		16-9	174

Location: CLARENCE RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
27- 30. viii	1	S	17.20	4.51	5.71	86	7.50	15-22	131
	2	S	17.60	10.39	.67	92	.53	13-22	19
	3	S	18.10	5.48	.89	91	.56	5-18	50
	4	S	17.25	0.43	6.35	92	.02	16-55	178
	5	S	16.80	.11	.72	96	6.26	13-29	191
		D	17.10	.18	.06	87	.65	6-19	136
	5a	S	16.85	.26	.01	86	.72	10-20	92
	6	S	17.30	.08	.03	87	7.52	6-25	41
		D	17.90	.06	5.95	87	6.52	7-20	24
	7	S	15.20	.02	.55	77	.02	10-71	276
		D	14.95	.03	.75	80	5.98	16-73	210
	8	S	14.00	.02	.62	76	6.20	24-73	203
	9	S	15.05	.04	.69	79	.36	24-74	288
		D	14.60	.02	6.05	83	.49	27-31	188
	9a	S	16.00	.02	.16	87	.08	26-71	232
10	S	21.70	.02	.39	100	.06	29-75	263	
12	S	14.90	.02	.07	84	.27	20-38	386	
15	S	17.90	.10	7.12	104	7.33	6-21	26	
1950									
13- 17. i	1	S	24.50	18.65	4.67	93	8.15	22-85	0
	2	S	28.20	.09	.64	98	7.99	16-85	55
	3	S	26.80	9.17	.59	86	.46	12	44
	4	S	26.70	.74	.72	89	.79	10-28	3
	5	S	26.00	6.62	.35	78	.47	10-19	8
		D	25.95	.80	.13	74	.43	7-28	19
	5a	S	27.40	3.06	5.21	92	.22	12-21	6
	6	S	27.30	1.75	4.45	78	.02	5-23	6
		D	26.50	2.03	.71	81	.12	3-20	7
	7	S	27.50	0.37	5.06	87	6.69	7-23	6
		D	27.40	.43	4.98	86	.70	7-28	7
	8	S	27.80	.05	.89	85	.16	8-32	36
	9	S	27.80	.06	.77	83	.32	15-28	11
		D	28.00	.05	5.07	88	.31	3-33	15
	9a	S	28.10	.13	4.80	83	.18	4-36	129
10	S	27.90	.06	.72	82	.16	8-33	67	
12	S	27.80	.04	.80	83	.21	18-58	683	
15	S	26.20	.09	5.57	94	.72	11-17	48	

Location: CLARENCE RIVER

Date	Section	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
28- 31. x	1	S	21.20	18.10	5.29	98		11-3	34
	2	S	22.40	.18	4.87	93		15-5	38
	3	S	21.70	0.67	5.58	88		20-7	91
	4	S	21.60	.23	.23	82		17-16	70
	5	S	21.60	.07	.18	81		48-5	61
	5a	D	21.60	.05	.36	84		18-13	71
	6	S	22.00	.03	.33	84		23-21	75
		D	22.40	.04	.23	83		33-10	83
	7	S	21.70	.04	.47	86		42-0	91
		D	22.80	.04	.30	84		19-23	104
	8	S	21.30	.04	.22	81		20-17	187
	9	S	23.50	.04	.60	90		22-18	76
		D	23.20	.06	.65	91		11-19	78
	9a	S	21.80	.05	.63	88		12-7	83
	10	S	22.80	.05	.33	85		15-7	81
12	S	23.90	.05	.83	94		19-13	215	
15	S	22.70	.11	.90	94		19-8	52	
		21.60	.05	4.41	69		22-7	106	

Location: MACLEAY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946 22. viii	1	S	16.80	17.53	5.76	100		7-1	0
	3	S	14.70	2.93	6.50	92		1-3	0
	4	S	14.10	0.94	.50	89		5-15	0
	5	S	14.40	.12	.60	91		6-7	0
	6	S	15.00	.05	.95	96		2	0
	7	S	17.80	.02	.45	94		8-0	1
	8	S	14.80	.02	7.00	97		6	1
	9	S	20.00	.02	.00	97		6	1
	10	S	15.10	.46	6.75	94		6-5	0
	1947 4- 6. ii	1	S	25.90	15.89	4.46	88		7
		D	25.60	18.05	.56	90		2	9
2		S	27.10	1.18	3.22	85		23	210
3		S	26.80	0.09	.44	59		32	278
		D	26.70	.08				20	240
4		S	26.00	.06	.08	52		26	335
		D	26.50	.05	2.95	50		23	240
5		S	26.00	.05	3.84	65		20	335
		D	26.00	.04	.71	62		29	278
6		S	29.00	.05	.73	66		45	500
6a		S	28.50	.02	4.21	74		40	420
7		S	29.10	.02	.26	75		30	420
8		S	29.00	.01	3.61	64		0	28
16. ix	1	S	18.50	19.63	5.21	95		3	11
	2	S	19.25	9.02	6.00	99		10	16
		D	19.50	12.67	5.73	98		7	14
	3	S	17.90	0.13	.80	85		28	20
		D	17.80	.14	.53	79		24	21
	4	S	17.90	.05	.84	85		32	155
		D	17.60	.05	.58	81		32	175
	4a	S	17.50	.04	.55	80		36	357
	5	S	17.40	.03	4.95	72		68	383
	6	S	18.25	.16	.37	64		60	323
	6a	S	18.20	.03	5.13	75		56	447
	7	S	18.75	.02	.38	80		56	434
	8	S	19.00	.03	.72	85		48	1563

Location: MACLEAY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
26- 27.1	1	S	23.50	18.58	4.86	95		13	0
	2	S	23.20	.75	.96	97		13	0
	3	S	24.50	4.51	.36	75		27	111
		D	22.80	.65	.21	70		26	150
	4	S	25.10	0.05	.02	67		28	25
		D	25.00	.05	3.82	63		41	193
	5	S	26.00	.02	4.75	80		31	154
		D	26.00	.03	.73	79		27	186
	6	S	26.30	.02	5.16	87		27	
	6a	S	26.15	.02	.20	88		22	64
	7	S	27.40	.02	.78	99		21	0
	8	S	27.10	.10	.98	102		23	0
19- 20. x	1	S	21.70	17.49	5.37	101	7.99	9-3	0
	2	S	21.30	5.51	.41	89	6.85	15	143
	3	S	21.80	1.63	.37	86	7.07	14-10	202
		D	21.20	.64	.32	84		18-9	240
	4	S	20.70	0.10	.09	78	6.29	29-16	317
		D	20.70	.05	4.67	72		33-15	418
	5	S	21.10	.02	5.72	89	.29	9	24
		D	21.10	.02	.70	88		9	33
	6	S	22.00	.03	.75	90	.20	14	40
	6a	S	20.90	.06	.54	86	.55	7-7	9
	7	S	23.00	.03	6.24	100	.23	9	17
	8	S	24.00	.02	5.87	95	.13	7-4	4

Location: **MACLEAY RIVER**

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949 21. - 23.1	1	S	25.20	19.05	4.54	92		11	7
	2	S	24.45	4.45	.63	79		12-13	39
		D	24.23	.41	.63	79		9	44
	3	S	25.10	0.22	.36	72		19-11	61
		D	25.22	.16	.39	73		20-14	25
	4	S	25.80	.07	.84	81		24	44
		D	25.00	.07	.22	70		26	44
	4a	S	27.00	.04	1.83	31		244	39
		D	25.15	.02	.34	22		64	396
	5	S	27.40	.02	4.67	80		33	20
D		26.10	.03	0.52	9		54	800	
6	S	26.00	.03	5.38	90		22	146	
	S	26.30	.03				21-0	128	
7	S	23.40	.12	3.35	54		7	30	
	S	27.10	.02	5.18	89		22-15	62	
9	S	27.30	.02	.23	90		16	19	
	S	29.20	.06	.12	90		5	14	
22. - 23.111	1	S	23.45	13.92	4.67	87	7.10	16-2	26
	2	S	23.40	1.16	.62	75	.01	31	136
		S	23.20	0.05	.20	67	6.39	38-18	151
	3	D	23.35	.05	.34	70	.33	39-10	141
		S	23.45	.03	.05	65	.66	38-5	165
	4	D	23.30	.03	3.93	63	.30	43-23	163
		S	23.50	.03	4.95	80	.19	24	178
	5	D	23.40	.03	.95	80	.14	70	159
S		23.40	.02	6.23	83	.19	24	178	
6a	S	23.05	.01	4.64	88	.21	16-12	140	
	S	23.20	.01	5.47	88		14	99	
8	S	23.40	.02	.28	84	.22	9-22	88	

Location: MACLEAY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
25. iv	1	S	21.70	19.28	5.14	98	8.16	8-4	3
	2	S	18.60	3.28	.72	88	7.44	14	19
	3	S	18.50	0.07	.90	87	6.65	16-9	26
	4	D	18.60	.05	.87	87	7.25	13-12	19
		D	18.60	.05	.90	87	6.28	10-5	9
	5	S	18.20	.04	.76	85	.15	13-6	18
		D	18.60	.02	6.15	90	.07	14	34
	6	S	17.80	.02	.15	91	.19	5	38
	6a	S	17.90	.02	.16	105	7.27	16	50
	7	S	17.80	.01	5.82	85	.06	18-17	90
	8	S	17.90	.01	.70	83	6.69	20	102
				.01	.85	85	.02	25-4	65
23- 24. v	1	S	21.10	18.78	5.28	100	8.13	5-1	18
	2	S	18.20	4.16	.59	86	7.48	17	8
	3	S	17.20	0.13	6.01	87	6.54	15-13	15
	4	D	17.60	.06	5.95	86	.28	10-13	21
		D	17.70	.05	6.43	94	.19	10-2	31
	5	S	17.80	.05	.35	93	.46	12-5	8
		D	18.20	.03	5.77	85	.46	9	22
	6	S	18.40	.08	.34	79	.35	15	4
	6a	S	18.50	.03	.47	81	.21	15	31
	7	S	18.80	.03	6.58	98	.18	15-6	58
	8	S	18.00	.01	.34	93	.17	9	16
			18.10	.09	.08	89	.69	8-26	23
27- 28. vi	1	S	18.50	18.36	5.42	97	8.29	5-8	11
	2	S	13.00	1.96	.60	76	7.19	9	260
	3	S	12.10	0.31	6.22	82	.20	19-1	244
		D	12.02	.06	.03	79	6.42	20-26	241
	4	S	12.00	.04	.32	93	7.06	34-5	256
		D	11.85	.04	.17	81	6.43	35-0	247
	5	S	11.50	.03	.67	86	.45	34	259
		D	11.40	.02	4.65	60	.36	26	362
	6	S	12.00	.03	6.48	85	8.13	17	206
	6a	S	11.00	.04	7.57	97	6.33	15-14	162
	7	S	9.90	.08	.33	91	.66	5	31
	8	S	9.40	.02	.43	91	.70	15-8	124

Location: MACLEAY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
29- 30. vii	1	S	14.60	8.02	5.43	71	8.16	25-0	284
	2	S	11.80	0.04	.10	66	6.25	23-0	505
		D	11.30	.04	.23	67	.19	35-2	574
	3	S	11.00	.04	.35	68	.31	34-54	647
	4	S	10.80	.02	.56	71	.68	32-42	647
	5	S	10.70	.02	6.17	78	.36	28-30	684
		D	10.65	.02	.93	88	7.76	30-35	684
	6	S	11.30	.05	3.34	42	6.25	32-29	1053
6a	S	10.20	.10	6.08	76	.56	31-34	747	
7	S	10.00	.04	.88	86	.52	25-12	747	
8	S	10.15	.25	.37	80	.67	25-15	747	
24. x	1	S	19.90		5.31		8.15	0-26	13
	2	S	21.80	4.45	.40	88	7.30	25-44	143
	3	S	22.20	0.05	.14	81	6.65	42-12	73
	4	S	22.60	.04	.03	80	.53	33-20	49
	6a	S	24.90	.05	.89	97	.34	27-8	76
	7	S	24.20	.04	.23	85	.43	29-1	57
	31. xi	1	S	20.25	15.91	5.19	94	8.08	16-4
2		S	21.60	0.77	4.78	75	6.69	26	95
3		S	22.10	.03	.49	71	.10	45-33	135
4		S	22.10	.03	.67	74	.78	42-25	61
		D	22.00	.02	.52	71	.17	36-37	89
5		S	22.40	.02	.78	76	.82	30	54
		D	22.00	.02	.37	69	.99	32	111
6		S	21.40	.03	.53	71	.31	32	121
6a	S	21.90	.03	.69	74	.09	31-5	125	
7	S	22.50	.09	2.01	32	.07	8	721	

Location: MACLEAY RIVER

Date	Station	Depth	Temp. °C.	Cl %/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
10.1	1	S	21.80	18.51	4.93	94	8.10	15-1	6
	2	S	24.80	10.50	5.26	97	7.88	14	6
	3	S	26.30	0.87	.59	95	.09	11-7	35
		D	26.30	.86	.56	95	.24	17-3	22
	4	S	26.55	.33	.30	90	6.83	17-11	83
		D	26.60	.38	.57	95	.91	13-13	11
	5	S	27.90	.08	4.84	84	.46	15	75
		D	27.70	.07	.91	85	.38	13	18
	6	S	29.10	.07	5.15	91	.37	19	100
	6a	S	29.35	.08	.78	102	.35	19-9	6
	7	S	29.50	.25	.67	101	.38	12	6
2.111	1	S	25.80	8.66	5.05	92		25-8	4
	2	S	25.55	0.21	3.86	65		28	163
	3	S	25.70	.04	4.41	74		28-20	138
		D	25.60	.05	.32	72		26-20	118
	4	S	25.30	.04	.55	76		26-33	144
		D	25.20	.05	.65	77		23-42	150
	5	S	25.40	.03	5.26	88		15-17	153
		D	24.80	.04	4.98	82		23-19	152
	6	S	26.40	.03	5.22	88		21	133
	6a	S	25.00	.03	.57	92		24-9	114
	7	S	25.00	.03	.27	87		28	106
27.111	1	S	25.00	10.62	4.71	87	7.11	14-4	4
	2	S	25.60	2.96	.76	82	6.83	20	4
	3	S	25.80	0.06	.94	83	7.66	15-10	6
		D	25.80	.05	.86	81	8.05	14-16	6
	4	S	25.80	.04	.67	78	7.60	20-12	9
		D	25.80	.04	.66	78	.45	22-16	14
	5	S	25.90	.04	.63	78	.37	21	26
		D	25.80	.04	.61	77	.64	25	22
	6	S	26.00	.06	.91	83	.99	25	103
	6a	S	26.10	.03	6.13	103	.37	18-0	21
	7	S	25.50	.03	5.37	90	.28	12	19

Location: MACLEAY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
24. iv	1	S	21.00	11.15	5.36	93	7.95	10-7	5
	2	S	19.80	1.94	.83	90	.13	23	33
	3	S	19.80	0.04	6.05	92	6.50	23-9	45
		D	19.85	.04	5.86	89	.59	17-13	27
	4	S	19.60	.04	6.02	91	.41	20-10	34
		D	18.60	.04	5.94	88	.46	20-8	21
	5	S	20.00	.04	6.20	94	.65	17	23
D		19.60	.04	5.98	90	.46	17	23	
6	S	20.25	.05	6.32	96	.48	17	16	
6a	S	20.40	.03	.86	105	.20	15-8	11	
7	S	19.90	.03	.38	97	.36	18-1	10	
24- 25. viii	2	S	14.00	0.06	6.87	93	7.45	14	144
	3	S	13.80	.06	7.85	106	.59	11-20	73
	4	S	13.90	.04	.68	104	.62	9-23	170
	5	S	13.40	.04	.75	104	.48	20	251
	6	S	13.40	.04	6.66	89	.23	17	238
15. ix	1	S	19.10	11.51	5.82	98	7.99	8-7	9
	2	S	18.50	0.05	6.27	92	8.30	11	17
	3	S	18.30	.05	.17	91	.22	13-4	13
	4	S	19.00	.06	5.75	86	7.94	12-13	28
	5	S	17.50	.52	6.14	89	.77	8	15
	6	S	18.25	.50	5.96	87	.95	12	28
1. xi	1	S	24.80	10.48	5.29	97	8.30	13-5	11
	2	S	23.50	5.36	.36	91	7.62	16	38
	3	S	21.50	0.05	.34	83	.73	24	42
		D	21.30	.05	.13	80	.52	28-19	54
	4	S	21.40	.05	4.58	71	.60	21-24	48
		D	21.60	.05	5.25	82	8.05	25-19	47
	5	S	20.40	.05	.48	84	7.56	19	52
D		18.70	.05	.31	79	.57	21	52	
6	S	23.00	.05	4.09	65	.49	55	127	
6a	S	22.30	.05	5.69	90	.61	46-0	55	
7	S	21.40	.05	3.56	55	6.81	22	253	

Location: MACLEAY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
14-	1	S	24.20	8.95	4.54	81	7.87	12-34	4
15. xii	2	S	25.40	0.40	.88	81	.84	10-13	23
	3	S	25.90	.04	.97	84	.86	12-28	6
		D	25.90	.04	.96	83	.62	9-15	3
	4	S	25.50	.05	3.97	65	.51	15-0	3
		D	25.50	.05	4.28	70	.73	11-0	49
	5	S	25.80	.04	3.91	66	.76	11	4
		D	25.80	.04	5.21	87	.54	11	8
	6	S	26.60	.05	.39	91		9	3
	6a	S	27.20	.04	4.20	72		9-12	0
	7	S	25.60	.04	3.38	57		11	65

Location: HASTINGS RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
19- 20. viii	1	S	17.40	18.73	6.08	108		3-4	1
	2	S	15.10	16.57	.34	89		1-5	1
	4	S	14.50	6.88	.52	96		0-0	4
	5	S	14.40	0.15	.53	89		6-4	10
	5a	S	13.30	.05	7.50	101		0-6	10
	6	S	11.90	.05	.32	96		0	10
	7	S	13.00	.05	.14	95		2	6
1947									
28. i- 4. ii	1	S	20.50	19.44	4.61	87		3	42
		D	21.00	.48	.56	87		9	61
	2	S	27.10	11.25	3.02	58		9	14
	4	S	26.50	0.64	4.62	79		7	31
	5	S	26.50	.10	.08	69		8	93
	5a	S	28.50	.02	.44	75		6	150
	6	S	26.50	.02	.18	71		8	93
	7	S	26.50	.04	.03	68		19	195
14. ix	1	S	17.50	19.68	5.57	100		8	12
	2	S	18.50	16.73	.22	92		9	21
	2a	S	20.00	7.06	.64	92		5	14
	4	S	19.80	3.09	6.12	96		9	18
	4a	S	18.35	0.77	.26	93		10	13
	5	S	19.00	.04	.66	99		6	32
	5a	S	18.50	.09	.44	95		5	22
	6	S	17.20	.04	.56	95		6	17
	7	S	16.10	.03	5.94	84		5	20
1948									
24- 25. i	1	S	24.50	19.26	5.12	103		19	15
	2	S	24.80	15.89	.02	98		14	27
	2a	S	27.10	0.15	.18	89		11	8
	3	S	25.40	7.63	3.92	71		14	4
	4	S	26.00	0.06	5.45	92		15	97
	4a	S	26.10	.04	.55	93		10	142
	5	S	26.50	.03	.57	94		14	49
	5a	S	26.20	.03	.55	94		14	119
	6	S	27.80	.04	.60	97		12	123
	7	S	26.50	.03	.65	96		14	53

Location: HASTINGS RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1948										
21- 22. x	1	S	19.00	19.63	5.29	97	7.67	9-11	22	
	2	S	21.40	15.46	.43	99	.96	9-1	5	
	2a	S	22.40	3.07			.19	0	11	
	4	S	21.70	1.56	6.03	96	.43	0-8	3	
	4a	S	21.40	0.05	.31	98	6.41	2	6	
	5	S	20.90	.04	5.98	92	.38	0	17	
	5a	S	20.80	.04	.95	92	.37	3	13	
	6	S	20.70	.17	6.39	99	.71	2-2	8	
	7	S	18.70	.03	5.98	89	.54	1	29	
1949										
25. iii	1	S	23.30	15.22	5.92	111		13-9	7	
	2	S	22.30	4.60	.00	83		8-13	51	
	2a	S	21.80	0.15	.45	86		6	26	
	5	S	20.90	.03	.75	89		3	79	
	5a	S	20.00	.02	.74	87		6	54	
		7	S	20.30	.87	.92	91		9	215
	1950									
9. i	1	S	26.00	19.19	5.60	115	8.05	15-8	11	
	2	S	28.05	12.05	.33	105	7.73	10-5	8	
	2a	S	29.40	0.46	4.79	85	6.62	1	11	
	3	S	27.30	2.05	.51	79	7.11	5	6	
	4	S	25.95	0.05	3.25	55	6.25	8-15	136	
	4a	S	27.40	.03	.88	67	.24	5-16	70	
	5	S	25.80	.03	4.48	75	.33	8	122	
	5a	S	26.20	.03	.97	84	.31	26-17	389	
	6	S	28.00	.02	.91	85	.34	50-30	650	
		7	S	26.95	.02	.58	78	.34	8-9	65
2- 4. xi	1	S	20.40	17.15	4.69	86		8-2	0	
	2	S	24.50	7.00	5.53	97		5	11	
	2a	S	23.40	0.47	.24	85		8	22	
	3	S	21.80	1.79	.28	84		5	3	
	4	S	17.50	0.19	.33	77		7-2	13	
	4a	S	21.70	.06	4.53	71		7-4	18	
	5a	S	20.30	.08	5.55	85		11-22	10	
	6	S	20.00	.06	.64	86			13	

Location: MANNING RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1946 17. viii	1	S	17.90	19.55	5.40	98		3-0	17	
	2	S	14.55	15.87	.58	91		0	1	
	3	S	15.20	16.82	.74	96		8-1	10	
	4	S	15.20	15.40	6.56	108		5-5	1	
	6	S		11.13	5.65			2-5	1	
	7	S	14.20	0.72	6.74	93		1-5	17	
	8	S	13.70	.05	7.71	104		0	4	
	9	S	13.35	.04	.00	94		2-14	4	
	10	S	14.00	.03	6.82	93		1	23	
	11	S	12.80	.02	7.22	96		2-9	23	
	1947 28. i	1	S	19.40	19.44	4.26	79		12	78
		D	19.10	.44	5.32	98		10	113	
3		S	26.30	18.21	4.40	90		24	31	
		D	27.30	.27	.34	90		25	45	
7		S	32.00	3.41	.89	93		10	33	
8		S	30.20	0.06	.93	88		15	178	
9		S	28.20	.05	3.95	69		15	195	
11		S	17.50	.10	4.01	58		44	25	
12- 13. ix		1	S	16.50	18.97	5.57	98		7	9
		2	S	17.60	12.64	.77	96		6	11
		3	S	17.80	.09	6.04	100		14	36
	4	S	17.60	10.97	.04	99		11	42	
	6	S	17.00	4.49	5.51	83		14	200	
	7	S	16.80	0.03	6.06	87		14	94	
	8	S	16.10	.03	.57	93		13	52	
	9	S	17.20	.04	.56	95		14	44	
	11	S	13.25	.03	.50	87		0	26	
1948 22- 23. i	1	S	23.55	13.14	5.38	100		8	0	
	3	S	25.30	4.65	.68	99		18	0	
	6	S	25.50	0.30	6.17	103		19	3	
	7	S	25.75	.03	5.30	89		15	369	
	8	S	25.70	.02	.58	93		11	0	
	9	S	25.90	.02	.12	86		14	70	
11	S	26.50	.12	.58	95		6	0		

Location: MANNING RIVER

Date	Station	Depth	Temp. °C.	Cl. ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1948										
23- 25. x	1	S	19.10	19.22	5.55	102	7.84	7-10	3	
	2	S	19.30	11.04	.74	97	8.09	0	0	
	3	S	18.50	8.34	.54	89	7.44	3-11	0	
	5	S	20.10	7.93	.28	87	.45	8-10	0	
	7	S	20.80	0.12	6.40	99	6.70	3-5	0	
	8	S	20.50	.03	.54	100	.61	1-9	6	
	9	S	21.30	.03	.64	103	.70	5-4	7	
	11	S	21.70	.02	.32	99		5-5	8	
	1949									
	24- 25. i	1	S	23.10	18.25	4.55	88		13-1	7
		2	S	26.15	12.70	.06	78		11	7
3		S	26.20	10.59	.82	91		9-11	11	
4		S	27.15	.91	.49	86		15	12	
5		S	27.00	7.24	3.94	72		22	4	
6		S	26.00	6.24	.96	71		22-2	5	
7		S	25.00	0.50	5.64	94		12	5	
9		S	27.00	.04	.25	90		11	10	
10		S	27.00	.02	.08	87		3	7	
11		S	27.00	.02	.76	98		7	258	
28- 29. iii		1	S	20.50	1.86	4.68	73		18-10	130
	2	S	20.50	0.23	.22	65		1-14	308	
	3	S	20.00	.18	.94	75		26-15	295	
	6	S	19.30	.06	5.14	77		16-16	330	
	7	S	19.10	.03	4.97	74		16-24	413	
	8	S	20.20	.02	5.33	81		21-26	384	
	9	S	18.60	.03	.38	79		18-22	343	
	11	S	17.30	.03	.85	85		6-14	48	
	23. iv	1	S	18.10	9.44	5.19	84		14-2	29
		2	S	17.30	2.36	.30	78		3-13	49
		3	S	17.60	0.21	.79	84		18-22	42
6		S	15.10	.05	.72	79		20-38	68	
7		S	15.40	.03	.67	79		22-22	87	
8		S	15.30	.03	.68	79		25-38	76	
9		S	15.10	.02	.82	81		21-55	127	
11		S	14.80	.05	6.23	86		7-21	108	

Location: MANNING RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1949										
25. v	1	S	19.30	18.17	5.61	102		5-3	40	
	2	S	17.40	5.02	6.17	94		1-13	21	
	3	S	15.70	6.92	5.83	88		7-4	10	
	6	S	16.30	2.41	.73	83		9-2	8	
	7	S	15.20	0.18	6.64	92		2-11	7	
	8	S	15.00	.03	7.17	99		11-4	6	
	9	S	14.40	.02	.10	97		11-6	5	
	11	S	14.90	.01	.17	99		4-6	4	
	1. vii	1	S	11.90	13.52	5.77	87	6.52	9-8	40
		2	S	10.90	1.88	6.11	80	5.09	2-18	65
		3	S	11.40	3.89	.85	92	8.42	6-6	89
7		S	8.90	0.04	9.61	117		4-8	52	
9		S	9.70	.32	8.03	99		10-11	18	
11		S	10.50	.04	7.97	100		2-4	66	
7. viii	1	S	16.80	18.89	5.75	101	8.32	12-2	53	
	2	S	13.15	1.49	.53	75	5.23	2	111	
	3	S	12.95	2.79	6.74	92	8.10	7-7	347	
	6	S	12.35	0.11	7.54	99		15-5	368	
	7	S	11.60	.04	.77	101	7.36	9-23	316	
	8	S	11.30	.03	.79	100	.44	12-5	300	
	9	S	11.10	.04	.55	97	.28	13-9	216	
	11	S	11.85	.08	.86	103	6.47	4-7	166	
	3. ix	1	S	17.25	11.81	5.97	98	7.44	21-7	85
		2	S	17.30	0.22	4.50	65	5.15	0-13	36
		3	S	18.20	.21	6.43	94	6.87	19-35	210
6		S	14.20	.06	.32	86	7.02	15	186	
8		S	14.55	.03	.53	90	6.34	14-24	175	
9		S	14.40	.03	.47	89	.41	11-40	190	
11		S	15.33	.03	.50	91	.19	6-19	76	
26- 27. x		1	S	19.10	18.74	5.37	98	8.13	24-6	34
	2	S	22.90	4.43	.86	98	7.81	20-25	29	
	3	S	21.55	6.63	.82	97	.78	22-15	31	
	6	S	23.80	0.08	.84	94	6.58	20-21	56	
	7	S	21.90	.05			.57	15-16	29	
	8	S	21.40	.05	5.86	91	.61	17-19	21	
	9	S	21.20	.05	.81	90	.59	15-10	18	
	11	S	19.05	.05	.78	86	.44	3-12	21	

Location: MANNING RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
5. xii	1	S	25.20	18.88	4.98	101	8.05	15-7	0
	2	S	26.00	6.47	5.21	94	7.56	11-14	0
	3	S	26.40	11.37	.06	96	.87	23-42	0
	6	S	27.40	0.65	6.10	106	6.93	18-32	5
	7	S	27.00	.03	5.30	90	.78	21-17	14
	8	S	26.95	.03	.68	97	7.20	19-11	6
	9	S	27.65	.03	.64	97	6.44	20-20	7
	11	S	27.40	.03	.57	96	.96	10-41	6
1950									
5. i	1	S	21.80	19.20	5.08	97	8.08	20-0	9
	2	S	26.20	12.35	4.79	92	7.79	17-8	7
	3	S	24.75	13.93	.43	84	.91	15-13	7
	6	S	26.70	1.49	.97	86	.34	7-13	18
	7	S	27.30	0.05	5.76	99	6.53	24-3	14
	8	S	27.60	.04	.44	94	.67	10-19	305
	9	S	27.80	.04	.01	87	.49	20-3	55
	11	S	23.50	.06	.43	87	.43	10-2	10
27- 28. ii	1	S	24.50	8.88	4.75	80		21-8	62
	2	S	25.70	0.95	.38	74		6-26	12
	3	S	25.05	2.06	.64	78		38-14	95
	6	S	25.40	0.07	.90	82		24-0	66
	7	S	25.20	.02	5.22	87		16-10	126
	8	S	25.00	.03	.31	88		14-5	59
	9	S	25.10	.03	.19	86		12-12	35
	11	S	26.40	.03	.22	88		7-12	15
25. iii	1	S	22.70	18.15	5.36	103	8.30	14-0	2
	2	S	25.70	7.52	.14	93	6.79	10-5	4
	3	S	25.60	4.95	.62	99	7.64	17-1	3
	6	S	27.60	1.30	.77	101		19-5	4
	7	S	25.50	0.04	.72	95	8.08	14-4	33
	8	S	25.25	.03	.75	96	7.88	14-0	14
	9	S	25.10	.05	.68	94	.82	17-6	13
	11	S	22.80	.13	.39	86	.52	15-0	15

Location: MANNING RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1950 22. iv	1	S	20.10	9.02	5.72	95	6.60	12-9	78	
	2	S	19.20	0.48	.06	76	5.88	2-5	48	
	3	S	19.20	1.69	.75	88	7.34	20-13	53	
	6	S	18.90	0.05	6.20	92	6.80	18-7	70	
	7	S	18.30	.04	.24	92	.63	17-10	99	
	8	S	18.10	.04	.27	92	.70	15-6	132	
	9	S	20.30	.04	.42	98	.44	16-5	37	
	11	S	16.80	.03	.34	91	.13	5-1	7	
	27. vii	1	S	14.50	2.61	6.87	97	8.23	18-9	179
		2	S	15.00	0.08	5.71	79	7.46	26-24	70
		3	S	14.10	.04	7.78	106	8.24	17-26	140
6		S	14.20	.04	.15	98	7.25	13-27	168	
7		S	14.45	.04	.37	101	.58	14-20	152	
8		S	13.80	.04	.06	96	.48	13-25	160	
11		S	13.00	.13	.83	105	8.30	14-18	85	
24- 26. viii		1	S	13.60	0.39	8.46	114	7.15	12-16	129
	2	S	14.40	.07	7.27	100	6.07	6-22	46	
	3	S	14.00	.10	.38	100	7.53	14-41	119	
	6	S	13.10	.05	8.16	109	.31	12-25	135	
	7	S	13.20	.05	.26	111	.44	10-0	149	
	8	S	13.10	.05	7.83	105	.78	13-26	110	
	11	S	12.50	.11	.95	105	.65	13-17	65	
	16. ix	1	S	16.70	17.19	5.88	101	8.05	19-3	90
2		S	17.40	2.28	.17	77	7.91	10-7	50	
3		S	16.90	0.77	.01	72	8.17	16-28	79	
6		S	16.40	.08	.60	80	.20	13-14	89	
7		S	16.40	.14	6.38	91	7.87	14-6	72	
8		S	16.50	.05	.33	90	.85	14-11	65	
9		S	17.00	.05	.25	89	.79	15-10	64	
11		S	17.50	.07	.35	92	.93	6-10	91	

Location: MANNING RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1950 6. xi	1	S	18.10	14.22	5.78	99	8.13	20-16	3	
	2	S	19.30	5.39	.23	83	7.39	11-0	3	
	3	S	19.10	.93	6.25	99	8.14	11-3	2	
	6	S	19.90	0.56	.15	94	.10	14	6	
	7	S	18.30	.25	5.71	84	7.69	23	31	
	8	S	18.20	.05	.84	86	6.79	25	27	
	9	S	18.80	.04	.83	87	8.01	27-4	22	
	11	S	21.00	.04	6.45	100	.18	4-5	10	
	17. xii	1	S	23.30	12.17	5.01	91	8.04	4-11	0
		2	S	25.20	5.25	4.92	86	7.33	1-19	0
		3	S	24.90	4.60	.96	86	.62	4-18	0
6		S	25.90	0.18	5.77	97	.95	2-16	0	
7		S	25.30	.05	.93	118	.82	4-12	0	
8		S	25.40	.05	6.15	123	8.08	4-13	4	
9		S	25.10	.05	.20	123	.04	5-15	0	
11		S	25.60	.04	5.82	97	7.85	4-8	0	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1942 4. vi	3	S	14.40	19.29	5.52	93		5	5	
		D	14.75	.30	.37	91		4	17	
	6	S	15.60	.42	.40	94		0	10	
		D	15.75	.43	.85	102		6	5	
	8	S	13.50	17.98	.05	83		4	0	
		D	13.50	.97	4.72	77		2	2	
	11	S	13.90	19.15	5.63	94		0	2	
		D	14.00	.16	.34	90		2	2	
	16	S	13.80	18.72	.01	84		2	2	
		D	13.90		.32				2	
	20	S	13.70	.01	.46	90		2	5	
		D	13.60	.34	.47	90		4	5	
	27. vi	5	S	13.60	19.03	5.58	93		3	2
			D	13.60	.05	.70	95		6	7
		6	S	16.00	.53	.49	96		3	17
			D	15.50	.50	6.60	114		6	8
7		S	14.20	18.96	4.98	84		3	7	
		D	14.30	19.11				3	2	
9		S	12.90	18.66	5.47	90		6	2	
		D	12.90	.66	.68	93		2	4	
11		S	13.90	.98	.24	87		6	4	
		D	13.90	.96	.85	98		4	4	
25. vii	2	S	16.30	19.55	5.33	94		5	12	
		D	15.90	.62	.25	92		4	10	
	4	S	16.00	.56	.32	93		2	13	
		D	16.25	.62	.30	93		2	8	
	5	S	13.80	17.94	.62	93		0	0	
		D	14.00	.94	.21	86		0	0	
	6	S	15.40	19.06	.10	87		3	43	
		D	15.30	.03	6.12	105		2	17	
	7	S	14.60	18.50	3.67	62		0	0	
		D	14.30	.46				0	13	
	9	S	13.00	17.17	5.02	81		0	0	
		D	13.00	.22				0	0	
	11	S	13.70	.01	6.12	100		2	20	
		D	13.70	.24	5.88	96		2	13	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1942 23. viii	2	S	15.80	16.80	5.34	90		0	11	
		D	16.20	18.67	6.35	110		0	8	
	3	S	16.20	.50	5.04	87		0	11	
		D	16.30	.46	.79	100		0	11	
	4	S	16.30	.60	.25	91		0	11	
		D	16.40	.83	6.61	115		0	20	
	6	S	15.90	.61	5.68	98		0	0	
		D	16.00	.65	6.10	106		0	8	
	8	S	16.00	17.77	4.23	72		0	11	
		D	16.00	.76	5.88	101		0	8	
	16	S	15.90	18.11	.45	94		0	8	
		D	16.00	.27	.66	98		0	11	
	25. viii	2	S	17.90	19.74				2	40
			D	17.50	.55	7.15	128		1	20
		3	S	16.00	18.27	5.73	99		3	16
			D	16.30	.80	6.78	116		2	36
4		S	16.40	.89	5.66	99		0	28	
		D	16.60	.99	.86	103		1	36	
5		S	16.00	.69	.75	99		0	16	
		D	16.40							
8		S	16.20	9.32	6.26	98		0	32	
		D	16.00	.22	.45	100		1	28	
9		S	16.15	17.64	5.67	97		0	32	
		D	16.00	.64	.70	97		0	8	
10		S	15.80	.02	.38	91		2	23	
		D	15.95	.02	.50	93		0	32	
11		S	15.70	16.71	.30	89		0	20	
		D	16.00	.71	.66	96		0	11	
17	S	15.80	17.97				0	11		
	D	15.95	18.16	.42	93		0	8		

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942 19. ix	5	S	16.40	19.29	6.08	107		2	8
		D	16.50	.49	5.63	99	0	0	
	7	S	16.10	.48	.76	101	0	0	
		D	16.30	.43			2	0	
	8	S	18.00	18.11	.56	99	0	0	
		D	18.20	.70	.60	101	2	0	
	9	S	16.40	19.27	.37	94	0	0	
		10	S	16.10	.16	.51	96	0	0
	D		15.80	.22	.43	94	0	8	
	11	S	16.30	.02	.52	97	0	0	
		D	15.90	.05	.38	93	0	3	
	12	S	17.40	18.12	.50	97	0	0	
		D	16.95	.98			0	3	
	16	S	17.20	19.53	.62	100	3	0	
		D	17.20	.47	.72	102	1	0	
	17	S	16.50	.26	.43	95	0	0	
		D	16.50	.27	.32	93	1	0	
	18	S	16.40	.31	.65	98	0	0	
		D	16.20	.28	.55	97	0	0	
	19	S	16.10	17.83	.51	95	0	3	
D		15.90	18.51	.80	100	0	3		
20	S	16.00	.94	.55	96	1	0		
	D	15.90	19.02	.73	99	1	3		
17. x	2	S	17.00	0.13	5.06	73	0	91	
		D	16.85	1.46	.12	74	0	108	
	3	S	17.50	9.08			1	42	
		D	17.00	14.43	4.53	76	1	28	
	4	S	16.90	0.52	5.29	76	0	101	
		D	17.00	6.21	.13	79	0	75	
	6	S	17.50	2.96	.37	78	0	83	
		D		12.89			2	39	
	8	S	17.50	5.67	.21	80	0	55	
		D	17.00	14.79	2.94	49	1	32	
	11	S	17.70	5.83	5.25	81	2	75	
		D	17.00	16.85	2.95	51	3	25	
	16	S	17.70	10.79	5.22	85	0	39	
		D	17.10	15.49	1.45	25	2	39	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
13. xi	2	S	19.60	19.33	4.02	74		0	3
		D	19.50	.31				0	3
	3	S	21.60	15.46	.90	90		0	0
		D	20.10	17.80	5.25	96		2	11
	4	S	20.50	.46	.29	99		0	0
		D	19.60	18.82				0	0
	5	S	20.40	17.65	4.95	91		0	0
		D	20.10	.80	9.07	166		0	3
	6	S	20.70	.01	5.02	92		0	3
		D	19.80	18.15	11.40	209		0	3
	7	S	20.60	17.14	5.05	93		0	6
		D	20.10	.72	9.27	170		0	8
	8	S	20.90	.54	5.52	102		0	0
		D	20.70	.43	.52	102		0	0
	9	S	21.60	16.33	.02	93		0	6
		D	21.50	.40	.20	96		0	0
	10	S	20.70	13.54	.01	86		0	3
		D	20.60	.79	.19	92		0	6
	11	S	22.50	.94	4.58	84		0	0
		D	22.20					0	
	12	S	23.00	8.63				0	35
		D	21.40	12.47	6.63	117		0	0
	16	S	20.50	18.37	5.25	98		0	0
		D	20.40	.52	.45	101		0	3
	17	S	22.00	15.40	4.89	91		0	3
		D	21.00	16.87				0	3
	18	S	21.00	15.66	.63	84		0	0
		D	20.80	16.52	.75	87		0	3
	19	S	21.00	8.44	.58	77		0	6
		D	20.90	13.39	.41	78		0	47
	20	S	20.70	14.93	.69	84		0	8
		D	20.70	16.25	.41	79		0	6
	22	S	20.40	18.86	5.25	98		0	3
		D	19.60	19.19	6.37	118		0	0

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
11. xii.	1	S	20.70	18.86	3.55	66		0	17
	2	S	19.60	19.59	4.20	78		0	3
		D	20.90	.58	.93	94		0	7
	3	S	21.40	17.24	2.96	55		0	1
		D	20.00	19.02	3.54	66		0	3
	4	S	21.10	18.92	4.58	87		0	13
		D	19.90	19.44	7.25	135		0	13
	5	S	20.60	.03	4.57	86		0	8
		D	20.50	.05	5.34	100		1	5
	6	S	20.80	18.62	3.87	72		0	3
		D	20.60	.94	4.18	78		0	3
	7	S	21.00	.89	.12	78		3	8
		D	21.30	19.01	.57	87		3	23
	8	S	20.60	18.44	.39	82		0	5
		D	20.80	.45	.87	91		0	3
	9	S	22.20	.55	.58	88		0	5
		D	22.00	.54	.81	92		0	5
	10	S	22.50	.10	.22	81		0	17
		D	22.70	.21	.69	90		0	12
	11	S	22.40	17.91	1.45	28		0	5
		D	22.60	.94	.38	26		0	5
	12	S	22.50	16.71	2.88	54		0	3
		D	22.60	.80	3.46	65		0	13
	16	S	19.80	19.43	4.77	89		0	5
		D	19.30	.43	.41	82		0	3
	17	S	22.10	18.40	.53	86		0	5
		D	22.00	.51	3.60	69		0	5
	18	S	20.50	.45	.93	73		0	8
		D	21.00	.86	.91	74		0	5
	19	S	22.50	17.41	.22	61		0	5
		D	22.50	.32	.19	61		0	2
	20	S	22.50	18.41	.99	77		0	5
		D	22.40	.43	4.18	80		0	17
	22	S	20.00	19.58	.59	86		0	17
		D	19.50	.58	.47	83		0	12

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
8.1	2	S	18.10	19.57	5.24	95		0	0
		D	17.70	.55	6.51	117		0	1
	3	S	23.50	.00	5.47	108		0	8
		D	20.40	.49	.55	102		2	8
	4	S	21.50	.55	.01	96		4	20
		D	18.00	.25	7.45	135		4	30
	5	S	22.50	.18	5.16	100		2	12
		D	22.00	.19	4.75	91		2	6
	6	S	23.60	.16	6.20	123		0	3
		D	21.00	.33	5.58	106		0	8
	7	S	23.30	.17	.12	101		4	8
		D	21.60	.21				1	17
	8	S	21.00	18.77	.10	99		1	13
		D	21.00	.67	4.83	94		0	0
	9	S	22.70	19.18	.92	96		0	6
		D	21.60	.24	5.96	114		3	1
	11	S	25.00	.67	4.60	93		5	3
		D	23.60	.83	.93	97		2	1
	12	S	24.80	17.99	.67	93		2	0
		D	24.80	18.17	5.63	112		2	3
	16	S	18.50	19.50	.23	95		0	0
		D	18.70	.50	.47	100		4	14
	17	S	23.90	.02	4.95	98		0	23
		D	21.90	.16	5.14	99		0	1
	18	S	24.10	18.85	4.83	96		3	17
		D	24.00	.83				0	1
	19	S	25.00	.75	5.01	101		0	6
		D	23.40	19.06	.54	109		0	13
	21	S	24.60	17.45	4.48	88		2	1
		D	24.50	.67	5.43	107		0	12
	22	S	17.80	19.65	.16	93		3	17
		D	17.70	.55	.07	92		2	3

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
5.11	2	S	18.60	19.68	5.84	107		1	0
		D	18.00	.65				0	3
	3	S	24.60	.39	4.55	92		3	0
		D	20.80	.57				0	3
	4	S	22.90	.53	.90	96		7	0
		D	18.60	.51				0	6
	5	S	22.60	.49	.80	94		3	6
		D	21.90	.52				2	6
	6	S	23.00	.52	.84	95		3	0
		D	21.90	.56				3	12
	7	S	22.50	.50	.75	92		7	3
		D	22.40	.55				5	3
	8	S	21.90	.48	5.18	100		3	0
		D	22.00	.55				0	0
	9	S	25.20	.42	4.46	91		0	0
		D	25.20	.41				0	0
	10	S	27.30	18.63	.14	87		0	0
		D	27.10	.65				1	3
	11	S	26.80	19.30	.31	90		0	0
		D	27.30	.28				0	0
	12	S	25.50	.04	3.31	68		0	0
		D	25.50	.06				2	0
	16	S	19.00	.58	5.33	98		0	0
		D	18.90	.60				5	0
	17	S	26.80	.21	4.46	93		0	0
		D	26.70	.21				1	3
	18	S	23.30	.49	.62	91		12	0
		D	23.20	.48				8	0
	19	S	25.20	.24	.18	85		6	6
		D	25.00	.20				1	0
	22	S	18.90	.61	5.47	101		7	0
		D	18.70	.60				3	0

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
5.111	2	S	20.50	19.75	4.85	92		2	9
		D	19.60	.71	6.55	95		3	18
	3	S	24.50	.86	4.91	99		0	0
		D	24.10	.80	.45	89		0	4
	4	S	23.00	.79	.83			1	0
		D	22.00	.77	5.75	111		0	4
	5	S	23.70	.85	4.70	94		1	0
		D	23.50	.83				1	4
	6	S	24.50	.88	.96	101		0	0
		D	24.20	.85	5.39	108		0	4
	7	S	24.50	.88	4.74	96		0	0
		D	24.10	.91				1	0
	8	S	21.40	.83	.61	88		3	4
		D	21.40	.80	.45	85		6	4
	9	S	23.80	.87	.50	90		2	0
		D	23.70	.87	.80	96		1	0
	10	S	25.30	.88	.30	88		0	0
		D	25.80	.82	.85	99		0	0
	11	S	25.30	20.31	.49	93		3	0
		D	25.40	.26	.56	94		0	4
	16	S	21.40	19.77	.85	93		0	4
		D	21.20	.75	5.65	109		0	4
	17	S	24.70	.77	4.83	98		5	9
		D	24.10	.85	.87	98		4	0
	18	S	25.70	.90	.40	91		0	0
		D	25.40	.83	.50	92		0	9
	19	S	26.10	.89	.30	90		0	0
		D	26.80	.87	.30	90		1	0
	20	S	25.50	.89	.41	91		0	4
		D	25.50	.90	.40	91		0	0
	22	S	20.70	.73	5.00	95		1	4
		D	20.50	.75	.10	96		1	9

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
2. iv	2	S	22.10	19.78	5.21	101		6	4
		D	22.50	.69	3.91	77		2	2
	3	S	21.00	.53	.89	74		10	4
		D	22.20	.64	4.29	83		5	4
	4	S	20.90	.63	5.36	102		7	8
		D	22.30	.75	4.49	88		0	8
	5	S	21.50	.82	.27	82		2	4
		D	22.30	.88	.13	81		5	10
	6	S	21.50	.77	.32	83		7	4
		D	22.60	.77	3.79	74		4	4
	7	S	21.50	.91	.93	76		9	4
		D	22.30	.82				7	10
	8	S	23.50	.38	4.91	97		2	10
	9	S		.75	.53			1	4
	10	S		.70	.38			4	12
	11	S		.79	3.69			1	8
	12	S	23.00	18.97	4.10	80		4	2
		D	23.00	19.04	3.04	59		6	4
	16	S	22.40	.52	4.83	94		4	2
		D	23.50	.60	.77	95		5	4
17	S		.83	.91			7	2	
18	S	22.00	.84				8	2	
	D	22.30	.82	.79	94		6	4	
19	S	21.40	.67	.91	94		4	8	
	D	22.30	.77	.60	90		4	4	
20	S		.75	.66			4	2	
8. v	2	S	19.70	19.75	5.27	98		7	0
		D	19.60	.79	.38	100		3-5	0
	3	S	17.30	.92	.19	93		5-4	8
		D	17.00	.92	.39	96		5-3	3
	4	S	18.15	.87	.33	97		11	3
		D	18.15	.81	.43	99		7-0	0
	5	S	18.20	.88	3.80	69		9-0	14
		D	17.90	.92	6.97	126		13	8
	7	S	18.00	.91	5.35	97		11-0	14
		D	17.80	.91	.39	98		5-1	0
	8	S	17.60	.91	.39	97		8	0
	16	S	18.00	.85	.37	98		7	3
		D	18.00	.84	.53	101		7	3

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1943 8.v	18	S	17.50	19.95	5.42	98		9	3	
		D	17.50	.93	.45	98		5	3	
	19	S	15.95	.93	.34	94		6	0	
		D	15.90	20.02	3.40	60		5	0	
	22	S	19.40	19.87	5.33	99		5	0	
		D	19.00	.88	6.15	114		5	3	
	18.vi	2	S	18.30	19.62	4.55	83		0-5	6
			D	18.40	.60	5.74	104		0-1	6
		3	S	15.30	17.49	4.90	82		0-3	0
			D	15.90	18.11	5.95	102		0-7	6
4		S	16.00	.47	.59	96		0-4	14	
		D	16.10	.45	6.03	105		0-3	6	
5		S	15.50	.13	5.65	96		0-3	0	
		D	15.60	.13	.83	99		0-4	9	
6		S	16.00	.35	.78	100		0	11	
		D	16.00	.29	.98	103		0	3	
7		S	13.90	17.23	.96	98		0	3	
		D	13.80	.21	6.11	100		0	14	
8		S	14.75	16.84	5.58	92		0	8	
		D	14.80	17.21	.52	92		0	6	
9		S	14.00	.29	.73	94		0-2	6	
		D	14.00	.26	6.00	98		0-0	3	
10		S	13.50	16.25	5.63	90		0-2	0	
		D	13.80	.60	6.11	99		0	0	
11		S	13.40	17.13	5.98	97		0-3	3	
		D	13.50	.23	6.30	102		0-3	3	
12		S	13.70	14.93	4.94	79		0	3	
		D	13.70	15.08	5.96	95		0	0	
16	S	14.80	14.62	.68	92		0	6		
	D	14.80	18.58	.57	94		0	3		
17	S	14.50	17.71	.60	93		0	3		
	D	14.60	.81	4.91	82		0	0		
20	S	14.60	.65	5.74	96		0	3		
	D	14.50	.39	6.01	100		0	3		
22	S	16.50	18.87	5.41	94		0	8		
	D	17.30	19.06	.73	102		0	6		

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943 16. vii	2	S	15.30	19.62	5.50	95		0-0	0
		D	16.00	.56	6.30	110		0-3	0
	3	S	13.50	18.37	5.71	94		0-3	6
		D	13.80	.94	6.13	102		0-3	3
	4	S	14.70	19.37	5.70	97		0-0	0
		D	16.00	.58	8.04	140		0-4	0
	5	S	14.20	.27	5.64	95		0-6	0
		D	12.90	.31				0-3	3
	6	S	11.70	.27	.72	92		0	3
		D	11.70	.24	6.13	99		0	3
	7	S	12.90	.18	5.87	97		0	3
		D	13.40	.13				0	0
	8	S	12.60	14.62	6.89	107		0	0
		D	13.10	.93	.52	102		0	19
	9	S	11.70	18.56	5.95	95		0-0	6
		D	11.70	.63	6.19	99		0-0	0
	10	S	12.00	.36	.05	97		0-7	8
		D	12.00	.42				0-4	0
	11	S	11.90	.59	5.96	96		0-3	8
		D	11.90	.55				0-0	6
	12	S	11.00	17.30	.84	91		0	0
		D	11.00	.50				0	3
	16	S	13.40	.12	.90	96		0	8
		D	13.60	.36	.93	97		0	0
17	S	12.00	18.75	.99	97		0	0	
	D	11.10	.72				0	0	
18	S	12.70	.91	.79	95		0	0	
	D	12.60	19.00	.84	95		0	0	
19	S	11.80	18.55	.67	91		0	0	
	D	12.10	.72	6.39	103		0	0	
20	S	12.60	.82	5.86	96		0	3	
	D	12.50	.79				0	0	
22	S	13.70	19.21	.55	94		0	0	
	D	12.90	.18	.87	97		0	0	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
10. ix	2	S	16.60	17.98	5.81	101		5-4	0
		D	16.50	.99	.62	97		9-6	0
	3	S	17.30	14.04	6.01	101		0-5	0
		D	16.55	17.69	5.82	100		3-5	0
	4	S	16.40	.84	.69	98		4-6	5
		D	16.70	18.73	.60	98		6-3	5
	5	S	16.45	17.92	.84	101		5-4	7
		D	15.40	.21	.36	90		3-6	5
	6	S	17.30	16.02	.81	100		3	0
		D	17.05	17.69	6.08	106		5	7
	7	S	16.40	16.73	5.88	100		0	5
		D		18.05	.69			6	7
	8	S	17.25	2.96	.35	93		0-0	0
	9	S	16.85	17.35	6.09	105		4-1	7
		D	16.40	.87	.12	106		5-4	0
	10	S	16.75	.34	.49	112		5-5	0
		D	16.60	.51	.36	110		3-6	0
	11	S	17.00	.08	5.93	103		4-9	0
		D	16.50	.28	6.10	105		3-7	4
	12	S	17.15	15.60	.58	112		4	0
		D	17.15	16.68	.33	110		1	0
	16	S	16.90	5.10	5.12	77		0	0
		D	17.00	9.01	.40	85		0	0
	17	S	17.20	17.00	.80	101		1	7
		D	16.10	.69	.14	87		5	0
	18	S	16.60	16.41	.86	100		3	5
		D	16.40	.80	.69	97		5	5
	19	S	16.20	13.30	.57	90		1	0
		D	16.20	15.27	.84	97		1	7
	20	S	16.10	17.80	6.12	105		4	0
		D	16.15	.76	5.89	101		3	0
	22	S	17.30	16.80	.84	101		10	0
		D		18.46	.81			3	0

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943 5. xi	2	S	19.30	19.33	5.20	96		1-2	4
		D	19.20	.38	3.70	68		13-17	12
	3	S	20.45	18.78	5.43	101		0-3	8
		D	20.10	19.16	.02	93		3-0	7
	4	S	19.50	.12	.31	98		5-0	4
		D	19.60	.17	.19	96		3-3	8
	5	S	19.95	18.93	.14	96		4-0	7
		D	19.65	19.16	.09	94		6-0	12
	6	S	19.80	.17	.56	103		0-3	8
		D	20.00	.18	.49	102		3-2	14
	7	S	19.85	18.80	.15	95		5	8
		D	19.70	19.08	.07	94		5	12
	8	S	20.95		4.77				
	9	S	20.70	18.65	5.28	99		4-1	8
		D	20.30	.69	.21	89		1-2	12
	10	S	21.05	.67	.26	99		0-3	7
		D	20.60	.81	.51	103		0-2	12
	11	S	20.95	.52	.15	97		2-1	7
		D	21.10	.49	.24	98		4-0	7
	12	S	21.30	16.80	.20	96		3	4
		D	21.30	17.26	.49	102		0	7
	16	S	19.70	18.97	4.76	88		1	8
D		20.30	.97	5.46	102		2	8	
17	S	20.60	.73	.17	97		1-4	8	
	D	20.30	.92	.27	98		2	7	
18	S	21.35	17.30	.02	93		0	7	
	D	20.70	.32	4.98	92		0	8	
19	S	21.20	14.56	.67	86		0	7	
	D	21.40	.28	.71	85		0	7	
20	S	20.35	18.98	5.26	98		0	8	
	D	20.55	.90	.39	101		3	12	
22	S	19.20	19.30	.38	99		4	12	
	D	19.15	.42	.41	99		5	8	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
13.1	2	S	20.40	19.56	5.20	98		0	0
		D	20.25	.58	.18	97		7-11	2
	3	S	23.80	17.19	4.37	85		7-0	0
		D	22.40	18.60	.53	87		2-4	0
	4	S	23.30	17.97	.48	87		0-6	0
		D	22.25	18.81	.71	91		0-7	0
	5	S	23.40	.06	.50	87		0-8	2
		D	22.85	.44	.45	86		0-28	2
	6	S	24.10	.08	.53	89		5-0	2
		D	23.15	.29	3.98	77		8	28
	7	S	23.10	.44	4.42	86		0	2
		D	23.00	.35	.39	85		3	4
	8	S	22.50	.09	.67	90		12	0
		D	22.55	.19	.60	88		11	0
	9	S	25.20	17.42				1-7	4
		D	25.20	.69	3.53	70		9-27	40
	10	S	26.00	11.85	4.17	79		0-6	4
		D	25.70	13.49	.30	83		0-8	2
	11	S	25.30	15.58	.67	91		0	0
		D	25.25	.72	.51	88		12-0	0
	16	S	22.30	18.76	.74	91		10	0
		D	21.90	19.11	5.02	96		12	0
17	S	25.30	15.96	4.62	91		0	0	
	D	24.70	16.16	.65	90		0	0	
18	S	24.15	17.57	.48	88		2	2	
	D	24.30	18.60	2.45	49		9	26	
19	S	24.35	14.34	3.83	73		2	0	
	D	24.40	15.09	.74	71		5	0	
20	S	25.40	14.06	4.33	83		0	0	
	D	25.70	13.71	.28	82		0	0	
22	S	20.20	19.54	5.40	101		9	0	
	D	20.15	.50	.11	96		28	0	
14.1	12	S	25.30	9.48	3.58	65		2	12
		D	25.40	13.37	.77	72		0	2
	13	S	24.20	0.02	4.02	66		0-0	37
		D	22.05	.02				0-29	25

ation: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
3/44									
.iii	2	S	22.80	19.70				8-24	20
		D	22.80	.63	3.34	66	0-16	12	
	4	S	23.20	.24	.69	72	3-42	23	
		D	22.80	.47	.34	65	4-5	13	
	5	S	23.20						
		D	23.20						
	6	S	23.50	.37	4.06	80	4-20	2	
		D	23.40	.34	3.86	76	6-10	12	
	7	S	23.20	.31	.57	70	8-12	20	
		D	23.40		.69		9		
	9	S	23.90	.28	.51	70	5-5	13	
		D	24.20	.23	4.26	85	7-2	12	
	11	S	23.80	18.55			2-5	12	
		D	23.50	.53			4-3	9	
	16	S	23.00	19.40	3.98	78	6-5	25	
		D	23.20	.45	4.61	91	5-20	13	
	18	S	23.20	.51	3.08	61	6-20	12	
		D	23.20	.10	2.95	58		25	
	19	S	22.30	18.03	3.02	58	10-2	20	
		D	22.30	.35	2.23	43	2-24	49	
	22	S	22.90	19.63	4.20	83	3-13	0	
		D	22.80	.72	.14	81	2-15	2	
S.V	2	S	16.40	19.78	5.31	94	1-5	3	
		D	16.10	.79	.45	96	0-10	3	
	3	S	14.20	.82	.73	97	0-16	20	
		D	13.70	.86	.63	95	0-2	15	
	4	S	16.05	.81	.35	93	1-4	3	
		D	15.70	.79	.39	94	1-5	2	
	5	S	15.15	.77	.40	93	0-6	12	
		D	15.05	.75	.45	94	2-18	3	
	6	S	15.45	.78	.48	95	0	20	
		D	15.45	.73	.54	96	0	20	
	7	S	15.00	.71	.68	98	2	9	
		D	14.80	.72	.49	94	0	12	
	9	S	13.50	.61	.59	93	1-4	15	
		D	13.45	.60	.62	94	0-3	15	
	10	S	13.70	18.97	.85	100	0-5	12	
		D	13.60	19.09	.83	97	0-17	2	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
6.v	11	S	13.15	19.69	5.75	96		0-0	9
		D	13.10	.69	.35	89		0-2	15
	16	S	15.00	.88	.72	99		2	3
		D	14.95	.90	.52	95		0	3
	17	S	14.40	.74	.43	93		0	15
		D	14.35	.75	4.95	84		0	15
	18	S	13.50	.64	5.69	96		1	3
		D	13.50	.68	.87	98		1	3
	19	S	12.70	.37	.21	86		0	9
		D	12.80	.40	.93	97		0	3
	20	S	13.00	.53	.59	92		0	20
		D	12.90	.52	.54	92		3	9
	22	S	15.90	.82	.49	96		2	9
		D	15.85	.82	.47	96		0	3
13.v11	2	S	15.35	19.41	5.68	98		2-7	12
		D	15.40	.39	.66	97		0-9	14
	3	S	14.45	18.82	.80	98		0-9	5
		D	14.45	.85	.75	97		0-9	4
	4	S	15.10	19.39				2-7	14
		D	15.05	.29	.72	98		2-4	14
	5	S	14.75	.15	.69	96		2-6	10
		D	14.85	.28	.69	97		1-6	10
	6	S	14.70	.15	.86	99		1	10
		D	14.70	.11	.94	101		0	6
	7	S	14.50	.21	.81	98		1	12
		D	14.50	.11	.72	97		2	10
	8	S	13.90	14.93	6.02	96		0	4
	9	S	14.70	19.09	5.92	100		0-7	19
		D	14.70	.13	.66	96		1-8	10
	10	S		.11	.90	99		0-6	6
		D	14.25	.11	.89	99		0-6	4
	11	S	13.85	18.99	.91	100		0-6	4
		D	13.85	.94	.68	95		0-6	2
	12	S	13.20	17.63	.92	96		0	4
D		13.20	.91	.88	96		0	5	
16	S	14.25	18.32	6.01	100		0	4	
	D	14.25	.46	.01	100		0	4	
17	S	14.70	19.23	5.95	101		0	6	
	D	14.70	.17	.80	98		0	5	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1944										
13. vii	18	S	13.40	18.38	6.00	99		0	19	
		D	13.40	.39	5.95	98		0	4	
	19	S		.40	.85			0	2	
		D	13.30	.37	.99	98		0	4	
	20	S	14.50	19.15	.88	99		1-9	6	
		D	14.45		.80			0-8		
	22	S	15.30	.34	.76	99		2	10	
		D	15.30	.29	.74	99		0	12	
	31. viii	2	S	15.75	17.97	5.72	99		0-5	0
			D	15.85	18.13	.75	99		1-3	0
3		S	16.30	14.12	.72	94		0-2	0	
		D	15.90	17.75	.50	94		0-5	0	
4		S	15.65	.65	.65	98		0-2	0	
		D	16.10	18.75	.56	96		2-4	0	
5		S	15.60	17.59	.60	95		0-1	3	
		D	15.60	.79	.57	95		0-2	0	
6		S	15.95	.66	.70	97		0	0	
		D	15.85	.67	.70	97		0	0	
7		S	15.70	.35	.69	96		0	0	
		D	15.70	.95	.56	95		2	3	
8		S	16.40	4.41	7.25	108		0	0	
		S	15.70	17.33	5.60	95		0-4	0	
9		D	15.60	.41	.25	89		2-4	0	
		S	16.10	15.91	6.05	102		0-2	0	
10		D	15.90	16.73	5.88	99		0-2	0	
		S	16.20	15.90	.63	94		1-2	0	
11		D	16.00	17.16	.60	95		0-2	0	
		S	15.90	12.69	.87	95		2	4	
12	D	15.90	14.19	.67	93		0	0		
	S	16.25	6.32	.75	87		0	0		
16	D	16.20	.67	.92	90		0	0		
	S	15.90	16.91	.65	96		2	0		
17	D	15.65	17.51	4.78	81		6	0		
	S	15.80	15.71	5.66	94		0	3		
18	D	15.70	16.57	.66	95		0	0		
	S	15.80	12.77	.58	90		0	7		
19	D	15.95	14.98	.22	86		1	3		

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
31. viii	20	S	15.90	16.44	5.74	96		0	0
		D	15.70	.98	4.40	74		5	0
	22	S	16.10	18.04	5.77	99		2	0
		D	16.30	.66	.89	102		2	0
9. xi	2	S	16.95		5.17			2-8	3
		D	16.80	19.66	.10	90		6-3	33
	3	S	18.80	.69	.03	92		1-4	3
		D	18.35	.69	4.93	90		4-16	3
	4	S	17.70	.62	5.19	94		5-2	17
		D	17.50	.63	.11	92		6-3	23
	5	S	19.55	.59	4.82	90		3-8	3
		D	19.10	.55	.86	90		4-4	0
	6	S	19.50	.61	5.35	99		2	3
		D	19.40	.59	.15	95		5	3
	7	S	19.70	.59	4.93	92		4	0
		D	19.20	.59	.67	85		4	0
	8	S	19.60	.71	5.70	106		0	3
		D	19.70	.58	.03	94		2-18	3
	9	S	19.85	.39	.09	95		1-19	0
		D	19.70	.58	.03	94		2-18	3
	10	S	19.65	.44	.28	98		0-3	0
		D	19.65	.41	.23	97		2-3	0
	11	S	19.60	.59	.04	94		3-3	3
		D	19.60	.58	.08	94		2-5	3
	12	S	20.70	18.26	4.48	83		0	0
		D	19.75	.84	.71	87		0	0
16	S	18.60	19.72	5.59	103		5	3	
	D	18.50	.70	.59	102		5	3	
17	S	19.90	.59	.11	95		2	0	
	D	19.10	.64	.02	92		5	0	
18	S	19.55	.31	.01	93		2	0	
	D	19.40	.30	.09	94		1	0	
19	S	20.55	18.62	4.85	91		2	0	
	D	19.70	.85	.87	90		0	0	
20	S	19.40	19.60	.93	91		2	3	
	D	19.20	.56	.93	91		4	3	
22	S	16.80	.64	5.14	91		20	40	
	D	16.80	.66	4.91	87		8	32	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
11. i	2	S	22.45	19.87	4.56	89		6-0	0
		D	22.40	.88	.45	87		7-0	0
	3	S	23.15	20.01	.56	90		5	0
		D	23.15	.01	.58	91		5	0
	4	S	22.55	19.88	.57	90		4	0
		D	22.05	.82	.70	91		6	0
	5	S	22.90	20.04	.40	87		5-0	0
		D	22.90	.04	.36	86		2-2	0
	6	S	23.30	.00	.33	86		4-2	5
		D	23.30	.01	.41	88		1-3	0
	7	S	22.80	19.97	.50	89		5	0
		D	22.70	20.00	.38	86		1	0
	8	S	23.55	.12	.57	91		0	0
		S	23.40	.12	.45	89		5-0	0
	9	D	23.10	.10	.53	90		3-0	0
		10	S	24.65	.65	.08	84		5-6
	D		24.50	.64	.10	84		3-7	0
	11	S	24.10	19.99	.17	84		4-4	0
		D	24.00	20.94	.24	86		4-0	0
	12	S	25.00	.41	.05	85		0	0
		D	24.80	.46	3.96	80		2	0
	16	S	22.40	19.85	4.45	87		0	0
		D	21.30	.83	.43	85		3	0
	17	S	23.90	20.32	.36	88		2	0
D		12.90	.32	.47	90		2	0	
18	S	23.85	.19	.32	87		5-1	0	
	D	23.90	.27	.33	97		2-1	0	
19	S	24.00	.45	.10	83		1	0	
	D	24.30	.44	3.34	68		6	0	
20	S	24.40	.35	4.33	88		0	0	
	D	24.40	.36	.30	87		2	0	
22	S	22.50	19.87	.61	90		7-0	0	
	D	22.35	.88	.60	90		5-0	0	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
23.111	2	S	22.95	19.71	4.92	97		0-5	3
		D	23.15	.72	.97	98		1-4	3
	3	S	23.90	.81	.84	97		2-1	3
		D	24.30	.81	.43	89		6-0	3
	4	S	23.30	.87	.82	95		0-9	3
		D	22.45	.70	.92	96		0-5	3
	5	S	23.35	.72	.77	94		3-3	5
		D	23.35	.73	.74	94		2-3	3
	6	S	23.35	.72	5.03	100		1	3
		D	23.55	.72	.02	100		2	3
	7	S	23.60	.73	4.79	95		1	5
		D	23.25	.70	.77	94		0	5
	8	S	24.35	.91	5.17	104		0	3
		D	23.35	.73	4.84	96		5-0	3
	9	S	23.35	.73	.85	96		3-4	3
		D	23.60	.73	.85	96		5-4	3
	10	S	24.30	.70	.82	97		5-4	3
		D	24.30	.89	.73	95		2-7	3
	11	S	24.50	.91	.80	97		5-1	3
		D	24.65	.87	.92	100		3-5	3
	12	S		.90				1	3
		D	24.70	.71	.72	96		4	3
	16	S	23.40	.84	3.74	74		0	3
		D		.22	.67			1	3
	17	S	24.10	.85	4.93	99		2	3
		D	24.30	.84	.94	100		2	3
	18	S	24.10	.60	.66	94		3	3
		D	23.95	.66	2.69	53		3	12
	19	S	24.90	18.78	4.50	91		1	3
		D	24.55	19.03	.45	89		1	3
	20	S	23.90	.73	.72	94		3	3
		D	24.15	.73	.69	94		9	3
	22	S	21.15	.69	.87	96		0-0	3
		D	22.80	.71	.94	97		2-14	3

Location: FORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
10. v	2	S	18.90	19.57	5.35	98		0-7	4
		D	18.60	.58	.33	97		0-5	4
	3	S	17.10	.57	.57	99		0-5	4
		D	16.90	.55	.50	97		2-4	4
	4	S	19.00	.64	.24	97		0-7	4
		D	18.50	.65	.13	94		1-8	4
	5	S	18.25	.56	.20	95		2-3	6
		D	18.25	.61	4.58	83		0-5	4
	6	S	18.30	.55	5.35	97		0	4
		D	18.20	.60	.26	96		0	4
	7	S	18.20	.56	.29	96		1	6
		D	18.20	.56	.17	94		1	6
	8	S	16.25	.34	.89	103		0	4
		D	16.40	.41	6.25	110		0	4
	9	S	16.70	.40	5.47	96		0-9	4
		D	16.60	.47	.54	98		0-9	4
	10	S	16.50	.36	.73	101		5-7	4
		D	16.50	.31	.73	101		1-5	4
	11	S	15.80	.54	.83	101		0-7	4
		D	15.80	.55	.78	101		0-1	4
	12	S	17.30	18.56	.47	97		0	4
		D	17.10	.62	.53	98		0	4
	16	S	18.00	19.67	.20	94		0	4
		D	17.90	.68	.50	95		0	4
	17	S	16.60	.51	.68	100		0	4
		D	16.55	.56	.61	99		0	4
	18	S	17.00	.56	.32	94		2	4
		D	17.00	.56	.03	89		3	6
	19	S	16.20	.50	.52	97		0	4
		D	16.25	.50	.40	95		1	4
	20	S	16.65	.32	.75	101		0	4
		D	16.60	.32	.74	101		0	4
	22	S	18.50	.61	.37	98		0	4
		D	18.50	.63	.41	99		1	4

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
12. vii	1	S	17.00	19.11	4.85	86		0-3	13
		D	17.65	.23	5.33	95		1-5	13
	2	S	16.20	18.50	.51	95		0-6	8
		D	16.20	.47	.48	95		0-4	12
	3	S	15.55	15.28	.62	93		0	12
		D	15.50	18.41	.37	92		0	8
	4	S	15.95	.31	6.31	108		0	12
		D	16.85	.69	5.50	96		1	13
	5	S	15.95	.34	.57	96		1-2	12
		D	16.10	.39	.48	95		2-3	13
	6	S	16.00	17.54	.64	96		0-4	12
		D	16.00	18.33	.54	96		1-3	12
	7	S	15.30	.04	.61	95		0	6
		D	15.80	.29	.51	95		0	18
	9	S	14.45	17.52	.85	97		0	3
		D	14.50	.49	.82	97		0	5
	10	S	14.15	16.82	.86	96		0	3
		D	14.15	.89	.90	97		1	3
	11	S	14.00	.89	.93	97		0-0	3
		D	14.05	.95	.86	96		0-1	3
	12	S	13.30	15.54	6.38	101		0	3
		D	13.85	.91	5.92	95		0	3
	16	S	16.80	18.61	.46	95		0-1	0
		D	16.85	.67	.43	95		0-2	12
	17	S	14.20	17.21	.87	97		0-1	3
		D	14.20	.24	.87	97		0-2	3
	18	S	14.75	.58	.73	96		0-5	6
		D	14.70	.61	.78	97		0-2	6
	19	S	13.50	15.15	6.15	98		0-2	3
		D	13.70	.30	.32	101		0-2	3
	20	S	14.70	17.53	3.75	63		2	3
		D	14.70	.58	5.06	84		1	3
	22	S	17.70	19.30	.34	96		0	12
		D	17.70	.33	.40	97		2	12

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945 6.1x	2	S	15.55	19.33	5.48	95		0-9	8
		D	15.40	.33	.57	96		3-4	10
	3	S	15.10	18.78	.91	101		3-3	7
		D	15.10	.99	.67	97		2-7	7
	4	S	15.60	19.24	.59	97		2-7	7
		D	15.70	.40	.25	91		12-17	14
	6	S	15.50	.21	.75	99		1	5
		D	15.20	.21	.73	99		2	8
	16	S	14.65	17.21	6.79	113		0	5
		D	14.70	.28	.79	113		0	5
	22	S	15.30	19.35	5.69	98		1	5
		D	15.45	.40	.75	99		0	8
7.1x	5	S	15.00	.24	.50	94		0-6	10
		D	15.15	.28	.51	95		4-0	10
	7	S	15.00	.23	.59	96		2	8
		D	14.95	.28	.46	93		1	7
	8	S	14.20	17.50	6.49	107		0	0
		D	14.15	18.98	5.71	96		1-4	5
	9	S	14.15	19.02	.80	98		1-5	10
		D	14.15	18.95	.80	97		1-6	5
	10	S	14.25	19.01	.82	98		2-0	8
		D	13.50	18.90	.82	97		0-5	10
	11	S	13.50	.95	.77	96		1-4	8
		D	13.60	17.81	.90	98		1	7
	12	S	13.60	18.58	.71	95		1	5
		D	13.60	18.58	.71	95		3	3
	17	S	14.40	19.13	.69	96		1	1
		D	14.40	.14	.77	98		0	5
	18	S	14.80	.14	.75	98		1	5
		D	14.80	.04	.80	99		1	5
	19	S	13.95	18.69	.66	95		2	8
		D	14.00	.79	4.59	77		2	7
20	S	14.60	19.16	5.66	96		1	7	
	D	14.60	.16	.46	98		2	7	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945 7. xi	2	S	18.90	19.62	5.03	93		0-6	34
		D	19.20	.63	.02	93		2-8	20
	3	S	21.20	.71	4.95	95		0-11	9
		D	22.40	.70	5.10	100		0-12	9
	4	S	19.10	.64	.34	99		4-1	20
		D	20.20	.63	.00	94		2-4	20
	5	S	21.90	.69	4.90	95		3-2	11
		D	21.30	.72	.84	93		2-5	11
	6	S	21.50	.75	5.93	114		0	11
		D	22.20	.70	6.10	118		0	10
	7	S	20.90	.72	5.00	95		0	10
		D	21.30	.72	4.92	94		0	15
	8	S	24.20	.65	6.38	128		0	9
		D	21.70	.77	5.05	98		2-4	9
	9	S	21.70	.77	4.83	93		3-4	9
		D	21.80	.77	.75	95		0-12	6
	10	S	23.60	.77	.93	96		2-14	6
		D	22.30	.76	.43	74		0-2	9
	11	S	24.00	.87	.80	94		1-9	6
		D	22.60	.89	.50	88		0	11
	12	S	22.40	.75	.40	86		0	11
		D	22.40	.77	.06	98		0	20
16	S	21.70	.66	.10	95		4	13	
	D	21.70	.74	4.94	89		2	9	
17	S	21.60	.73	.65	89		2	18	
	D	22.00	.77	5.02	97		1	10	
18	S	22.00	.77	.12	100		0	7	
	D	22.70	.77	4.55	89		1	18	
19	S	22.70	.77	.64	90		1	9	
	D	22.10	.77	.74	92		0	15	
20	S	21.80	.75	.77	92		2	6	
	D	22.00	.75	5.40	100		4	20	
22	S	19.40	.63	.45	101		5	23	
	D	19.10	.61						

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl <sup>-</sup> /‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1946										
17.1	1	S	18.25	19.69	4.96	90		5-1	0	
		D	18.10	.69	5.19	94		2-8	7	
	2	S	22.10	.74	6.07	118		5-1	0	
		D	22.40	.78	5.76	112		3-10	0	
	3	S	24.15	.81	.43	109		1-3	0	
		D	21.90	.82	4.97	96		8-0	0	
	4	S	21.10	.95	.82	92		4-10	0	
		D	23.30	.85	.80	95		2-0	0	
	5	S	24.25	.96	.92	99		2-3	0	
		D	24.60	.95	.94	100		2-0	5	
	7	S	25.45	20.11	.72	98		5	0	
		D	25.40	.12	.63	96		0	0	
	8	S	22.20	19.80	5.54	107		0	0	
		D	22.30	.81	.57	108		0	0	
	9	S	25.00	18.96	.40	111		2-0	0	
		D	25.10	19.96	.46	115		0-2	0	
	10	S	26.00	20.19	4.30	89		1-4	0	
		D	26.20	.26	.37	92		1-8	0	
	11	S	25.40	.62	.23	88		7-18	0	
		D	25.20	.64	.36	90		0-6	0	
	12	S	26.30	.09	.45	91		0	0	
		D	26.40	.10	.15	88		1	0	
	20.11	1	S	22.50	19.52	5.21	102		1-8	9
			D	22.50	.66	.09	99		2-4	9
3		S	24.00	.77	.04	101		2-11	9	
		D	23.80	.76	.00	100		2-12	19	
5		S	24.00	.81	.05	102		2-8	16	
		D	23.40	.77	.00	99		2-9	16	
7		S	23.90	.85	.58	111		2-11	19	
		D	23.90	.82	4.90	98		3-17	16	
8		S	25.40	.66	3.70	76		0-7	16	
		S	26.40	20.11	6.33	133		2-7	10	
9		D	26.00	.06	.10	127		3-2	11	
		S	25.40	19.97	4.60	95		3-12	11	
10		D	25.00	.97	5.07	104		2-9	19	
		S	25.20	20.05	.08	105		2-11	16	
11		D	25.10	.03	4.90	101		2-7	11	
		S	25.40	.01	.98	100		6-4	12	
12		S	25.40	19.98	5.58	115		11-16	11	
		D	25.40							

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
19.111	1	S	20.70	19.66	5.05	96		3-6	18
		D	20.50	.67	.15	97		4-16	10
	2	S	21.00	.77	.15	98		2-7	10
		D	20.50	.59	.10	96		1-5	20
	3	S	21.70	20.08	4.90	95		1-7	11
		D	21.40	.08	5.00	96		1-5	11
	4	S	21.20	19.80	.03	96		4-5	18
		D	20.80	.82	4.83	92		2-5	15
	5	S	21.20	.96	.73	84		0-5	18
		D	21.00	.91	.70	90		4-0	19
	8	S	20.55	.82	.99	95		0-5	20
		D	20.50	.76	.90	93		4-2	19
	9	S	22.00	20.03	.95	96		1-10	18
		D	21.30	.12	.85	94		0-8	18
	11	S	21.90	.30	.92	96		1-4	10
		D	21.25	.37	.70	91		0-9	10
	19	S	21.60	.08	.84	94		1-2	15
		D	21.50	.09	.83	93		1-44	10
16.1v	8	S	17.80	12.48	4.39	73		5	28
		S	15.60	0.16	.75	67		0-28	43
		D	15.50	.12	5.28	74		0-30	60
21.v	3	S	15.85	17.63	6.40	109		2	13
		D	16.00	.76	5.70	98		7	8
	8	S	14.20	3.84	.46	77		0	110
		S	14.90	15.70	6.18	101		1-0	8
12	D	14.85	16.24	5.44	90		1-1	6	
	S	16.60	17.98	.70	99		3-0	20	
22.v	5	D	16.70	18.44	.60	98		6-0	18
		S	15.60	17.09	6.20	105		1-0	6
	7	S	15.50	.98	5.56	95		4-0	16
		D	15.35	16.97	6.01	101		0	10
	9	S	15.70	17.25	5.40	92		2	13
		D	15.85	.00	6.01	102		2-0	6
	10	S	15.85	.11	.01	102		1-1	6
		D	15.60	16.98	.20	105		0-2	3
11	S	15.70	17.48	5.98	102		0-4	3	
	D								

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
23. v	1	S	17.40	18.62	5.70	102		2-2	10
		D	18.15	19.42	.80	105		4-1	3
	2	S	16.80	17.98	.57	97		4-1	10
		D	16.90	.94	.85	102		4-1	
19. vi	2	S	16.30	19.29	5.60	98		0-9	3
		D	16.40	.27	.80	102		1-0	3
	2	S	17.40	.25	.45	97		0-7	5
		D	16.80	.56	.25	93		1-7	3
	3	S	14.40	17.61	.84	90		0-2	1
		D	14.90	.78	.45	84		0-6	1
	4	S	15.00	18.90	.82	104		2-0	3
		D	16.20	.96	.70	99		1-5	3
	5	S	14.80	19.05	.64	116		0-3	1
		D	14.80	18.55	.77	98		0-2	1
	7	S	14.60	.78	.80	98		0-3	1
		D	14.80	.82	.73	100		0-2	1
	8	S	13.30	8.06	7.00	102		0-0	58
		D	13.40	.00	6.93	101		0-0	55
	9	S	14.40	18.54	5.87	99		1-7	3
		D	14.40	.71	.75	97		0-6	3
	10	S	13.20	.01	.90	96		0-2	1
		D	13.50	.21	6.01	99		0-6	1
11	S	13.70	.36	5.92	98		0-7	3	
	D	13.60	.43	.90	98		0-2	3	
12	S	13.10	17.43	.98	97		0-5	1	
	D	13.10	.77	.97	97		0-4	1	
18	S	14.20	18.66	6.02	101		0-5	1	
	D	14.20	.80	5.93	100		1-1	1	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946 16. vii	1	S	15.20	19.47	5.90	102		2-2	4
		D	15.00	.54	.20	89		3-0	4
	2	S	15.40	.46	.74	99		3-2	7
		D	13.90	18.47	.85	98		0-6	11
	3	S	13.90	.40	.83	99		0-3	4
		D	14.10	.78	.85	98		0-6	1
	4	S	14.10	.95	.94	100		0-3	5
		D	14.40	19.13	.77	97		2-0	7
	5	S	14.20	18.96	.78	97		0-9	1
		D	14.30	19.06	.72	96		2-9	4
	7	S	13.60	18.81	.80	96		0-9	0
		D	14.20	19.04	.65	95		0-7	1
	8	S	13.80	18.21	.75	97		0-6	4
		D	13.90	.66	.62	94		0-4	4
	9	S	13.10	.49	4.73	78		0-6	0
		D	13.05	.51	5.85	96		0-3	0
	10	S	12.90	.37	.75	94		1-5	1
		D	12.80	.41	.77	94		0-4	1
	11	S	12.80	.42	.88	96		0-9	1
		D	12.70	.44	.76	94		0-6	5
	12	S	12.60	.04	.72	92		0-7	1
		D	12.40	.05	.80	94		0-5	1
18	S	13.10	.66	.90	97		1-7	0	
	D	13.05	.72	.84	96		0-5	0	
21. viii	1	S	15.60	19.59	5.42	94		6-9	28
		D	14.25	.62	.57	95		4-6	10
	2	S	14.50	.67	.60	96		4-6	7
		D	14.50	.67	.60	95		4-11	7
	3	S	13.90	.60	.90	100		5-2	5
		D	13.20	.56	.66	94		4-4	5
	4	S	14.20	.62	.75	97		4-1	10
		D	14.10	.60	.57	94		4-6	10
	5	S	13.90	.60	.63	95		6-0	16
		D	13.90	.55	.58	94		5-7	10
	8	S	13.00	18.89	.50	91			5
	9	S	13.00	19.48	.82	96		5-0	5
		D	12.95	.50	.85	97		5-2	5

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1946										
21. viii	10	S	12.20	19.16	5.92	97		2-1	7	
		D	12.20	.14	.69	93		4-6	7	
	11	S	12.20	.59	.93	97		4-1	7	
		D	12.15	.56	6.00	98		3-7	7	
	12	S	13.50	18.24	5.74	94		2-0	5	
		D	12.70	.54	.75	94		4-0	5	
	17	S	14.10	19.60	.80	98		5-0	7	
		D	14.05	.61	.67	96			10	
	18	S	13.90	.60	.82	98		3-2	5	
		D	13.90	.59	.70	96		5-4	5	
	26. ix	1	S	16.80	19.65	5.54	99		4	0
			D	14.80	.69	.52	96		6	0
		2	S	14.40	.70	7.65	130		6-5	0
			D	16.50	.71	5.35	95		5-7	0
3		S	15.80	.50	3.99	70		3-7	0	
		D	15.90	.51	5.47	96		3-2	0	
4		S	16.40	.64	.54	97		6-23	0	
		D	13.50	.71	.54	93		6-10	0	
5		S	16.30	.71	7.18	126		6-1	0	
		D	16.10	.64	6.90	121		5-6	0	
7		S	16.30	.61	5.37	94		6	0	
		D	16.20	.62	.46	96		6-5	0	
8		S	16.00	.57	.94	105		4-4	0	
		S	16.10	.58	7.38	129		5-5	0	
9		D	16.00	.60	5.53	97		5-5	0	
		S	16.00	.43	6.85	120		5-5	0	
10		D	15.90	.48	.38	111		3-13	0	
		S	15.80	.37	5.55	97		4-11	0	
11		D	15.80	.41	7.61	132		4-6	0	
		S	15.50	.10	5.47	94		1-13	0	
12		D	15.20	.15	.20	89		1-9	0	
		S	16.20	.62	.80	102		4-4	0	
18		S	16.20	.62	.80	102		4-4	0	
		D	16.10	.57	.57	98		3-7	0	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
23. x	1	S	17.60		5.35			5-1	
		D	19.00	19.47	.03	93		7-3	47
24. x	2	S	16.80	.69	.35	95		2-2	13
		D	16.60	.67	.38	95		5-12	17
	3	S	18.00	.75	.20	95		0-1	7
		D	17.60	.72	4.95	89		4-3	7
	4	S	17.50	.70	5.27	95		4-2	24
		D	16.80	.70	.25	93		2-4	17
	5	S	17.50	.68	.29	95		1-4	26
		D	17.30	.72	.30	95		2-4	12
	7	S	17.90	.72	.24	95		2-1	7
		D	17.50	.72	.19	93		0-5	7
	8	S	18.80	.53	.61	103		0-3	7
	9	S	17.70	.80	.40	98		1-0	7
		D	17.50	.77	.19	93		0-3	4
	10	S	17.40	.76	.07	91		0-2	7
		D	17.20	.78	.03	90		1-3	7
	11	S	17.60	.77	.33	96		1-4	8
		D	17.50	.79	.25	94		0-4	7
	12	S	18.20	.67	4.95	90		1-2	12
		D	17.90	.63	.95	90		0-3	7
	18	S	17.60	.74	5.40	97		0-1	7
		D	17.40	.75	.44	98		0-2	7

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946 14. xi	3	S	20.80	19.73	5.30	101		4-6	8
		D	20.60	.75	.27	100		5-0	3
	4	S	20.00	.69	.09	95		4-0	13
		D	20.50	.73	.65	107		4-0	14
	5	S	21.80	.78	4.95	86		4-6	8
		D	20.55	.77	.90	93		4-2	14
	7	S	21.10	.80	.85	93		3-2	14
		D	20.90	.81	.78	91		4-1	14
	8	S	21.30	.72	5.03	96		0-0	14
	9	S	22.20	.83	.03	96		1-0	8
		D	21.55	.81	.27	101		2-0	8
	10	S	22.50	.87	4.87	95		5-0	3
		D	22.30	.86	.85	95		5-0	13
	11	S	23.10	.89	.85	97		1-0	3
		D	22.90	.96	.72	93		1-0	3
	12	S	22.30	.87	.90	96		3-0	3
		D	22.95	.84	5.03	99		1-0	2
	18	S	21.10	.84	4.85	93		0-9	8
		D	21.90	.83	.85	94		0-6	12
	19. xi	1	S	19.50	19.57	5.49	102		1-10
D			19.60	.58	.45	102		0-8	12
2		S	20.05	.61	.24	98		2-6	14
		D	19.50	.60	.32	99		2-10	20
3		S	22.30	.56	4.73	92		0-11	14
		D	21.30	.60	.45	85		3-8	14
4		S	22.20	.70	5.30	103		0-8	14
		D	21.10	.71	4.85	93		0-8	14
5		S	22.45	.80	.73	92		0-5	17
		D	22.40	.77	.66	91		0-5	14
7		S	23.00	.80	.70	93		0-8	14
		D	22.40	.79	.50	88		1-7	14
8		S	23.20	.44	5.04	97		0-8	14
		S	23.90	.83	.49	100		0	14
9		S	23.90	.85	.15	103		0	14
		D	23.90	.85	.15	103		0-12	20
11		S	24.30	20.13	4.55	92		0-15	14
		D	24.40	.26	.38	89		0-9	23
12		S	24.40	19.85	.25	86		0-1	14
		D	24.50	.76	3.62	73			

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
19. xii	18	S	24.00	19.89	4.45	89		0-7	20
		D	23.90	.89	.56	91		0-8	14
	19	S	24.00	.92	.21	85		0-12	10
		D	24.00	.90	.20	84		1-10	17
1947									
21. i	1	S	22.10	19.64	5.27	102		0-15	17
		D	21.90	.65	.14	99		0-12	14
	2	S	22.30	.74	.23	102		0-15	14
		D	23.80	.70				3-6	14
	3	S	24.40	.79	4.70	95		0-10	14
		D	23.90	.78	5.03	100		1-17	14
	4	S	23.90	.78	4.67	93		0-13	12
		D	22.40	.77	.54	88		0-15	14
	5	S	23.70	.81	.55	91		0-19	17
		D	23.90	.74	.49	100		4-3	17
	7	S	23.90	.83	.77	96		4-5	12
		D	23.50	.77	.72	94		8-12	17
	8	S	24.30	.62	5.33	107		0-10	12
		D	24.50	.61	.23	106		0-19	14
	9	S	24.40	.96	4.50	91		2-5	14
		D	24.40	.79	.57	93		1-8	10
	10	S	24.70	.96	.49	91		0-12	7
		D	24.60	20.00	.39	89		4-14	14
	11	S	24.50	.03				0-14	14
		D	24.20	.07	.31	88		3-16	12
12	S	24.30	19.95	.37	88		0-8	12	
	D	24.30	.96	.16	84		1-12	14	
18	S	24.30	.90	.49	91		0-8	10	
	D	24.10	.88	.47	90		1-8	17	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947 17.11	1	S	20.80	19.56	3.68	70		3-5	12
		D	21.40	.62	5.70	109		0-9	10
	2	S	22.50	.51	.75	112		2-5	10
		D	22.20	.47	.54	108		1	10
	3	S	23.60	18.16	3.32	65		0-5	12
		D	22.70	19.30	4.84	95		2-5	7
	4	S	22.60	.35	5.14	100		0-7	10
		D	21.25	.46	4.38	84		7-9	7
18.11	8	S	23.50	15.98	.50	86		0-7	10
		D	22.65	19.47	.68	91		0-8	12
	5	S	22.30	.45	.48	88		2-7	10
		D	22.40	.41	.60	90		1-7	10
	7	S	22.70	.42	.60	90		3-13	12
		D	22.40	.52	.60	89		2-5	10
	9	S	22.50	.52	.33	84		1-7	7
		D	22.90	18.51	.38	86		2-8	7
	10	S	23.30	19.26	.44	88		7-5	12
		D	23.05	18.81	.44	87		1-6	4
	11	S	23.50	19.23	.48	88		1-6	7
		D	24.50	16.33	.39	85		0-13	10
	12	S	23.70	18.25	.14	80		2-5	12
		D							
19.11	5	S	22.80	17.80	4.67	90		0-7	5
		D	22.50	18.70	.65	90		3-2	5
	7	S	22.80	17.67	.76	91		0-6	2
		D	24.80	18.45	.19	84		3-4	15
	9	S	25.50	.10	.95	100		0	2
		D	25.00		.95			0	5
	10	S	25.40	16.50	.13	82		0-7	5
		D	25.30	.54	.37	86		0-8	5
	11	S	25.50	.82	3.60	72		0-3	5
		D	27.50	.97	4.60	95		0-7	5
	12	S	25.40	.19	.63	91		0-5	2
		D	25.20	15.92	.36	85		0-3	2
20.11	1	S	21.60	19.50	5.03	97		1	5
		D	21.60	.55	.03	97		1-6	5
	2	S	23.90	18.62	4.78	94		0-10	5
		D	23.20	.66	3.59	90		0-7	5
	3	S	24.20	.20	.95	78		1-5	2
		D	24.30	.79	4.54	90		3	2

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947										
20.iii	4	S	23.20	18.84	4.84	95		0-3	17	
		D	23.00	.78	.65	91		0-5	5	
	8	S	24.00	.59	.44	88		1-7	5	
22.iv	1	S	20.20	19.53	5.24	98		1-0	7	
		D	20.30	.54	.17	97		0-3	7	
	2	S	20.05	.40	.01	107		1-0	5	
		D	20.05	.30	4.93	92		1-5	7	
	3	S	20.20	18.83	5.19	97		0-3	7	
		D	20.00	.80	.08	95		1-0	5	
	4	S	19.70	19.17	4.99	93		1-5	5	
		D	20.00	.18	5.12	95		0-19	5	
	5	S	19.90	18.90	.12	95		0-5	7	
		D	19.90	19.03	.03	93		3-0	12	
	7	S	19.95	18.95	.43	101		1-2	2	
		D	19.70	.83	.12	95		1	2	
	8	S	20.40	16.49	.73	105		0-1	5	
		D	19.40	19.62	.62	104		0-3	2	
	9	S	19.50	18.72	.68	105		0-7	5	
		D	19.60	.79	.15	94		1-6	2	
	10	S	19.70	17.71	4.81	88		1-6	5	
		D	19.50	.71	5.05	92		5-2	7	
	11	S	19.60	.83	.12	94		0-3	5	
		D	19.45	.85	.68	104		0-3	5	
	12	S	19.90	18.17	.12	94		0-5	7	
		D	19.70	.52	.68	105		0-8	7	
	21.v	1	S	20.90	19.63	5.35	101		5-3	28
			D	20.80	.56	.30	100		3-0	22
2		S	20.00	.27	.50	102		3-3	25	
		D	20.00	.29	.00	93		1-7	18	
3		S	19.70	18.97	.50	102		3-0	25	
		D	19.70	19.04	4.48	83		1-4	18	
4		S	19.60	.19	5.13	95		1-6	22	
		D	19.80	.27	4.83	90		5-7	36	
5		S	19.65	.13	.80	89		1-2	18	
		D	19.90	.18	5.04	94		1-5	25	
7		S	19.45	.04	4.84	89		3-3	18	
		D	20.15	.09	5.08	95		3-3	18	

Location: **PORT STEPHENS**

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947 21. v	8	S	19.10	15.05	4.89	86		0-0	13	
		D	19.15	.23	5.01	87		0-1	13	
	9	S	19.10	18.78	.04	92		0-5	16	
		D	19.60	.85	4.97	92		0-3	22	
	10	S	19.40	.55	.64	85		1-4	13	
		D	19.50	.60	5.15	94		1-6	13	
	11	S	18.80	.45	.23	95		1-6	16	
		D	18.90	.46	.12	93		0-5	16	
	12	S	19.00	.03	4.90	89		3-4	13	
		D	19.05	17.86	5.45	98		1-6	54	
	26. vi	2	S	17.00	19.40	5.72	101		3-0	30
			D	17.00	.40	.70	101		3-0	20
3		S	13.50	17.81	.97	95		0-1	16	
		D	14.00	.95	.70	94		0-1	16	
4		S	16.00	18.93	.74	99		0-1	18	
		D	15.30	19.40	.50	95		0-3	18	
5		S	14.70	18.83	.57	94		0-0	16	
		D	14.45	.89	.03	85		1-0	18	
7		S	14.50	.83	.53	93		0-0	18	
		D	14.30	.83	.65	95		1-2	20	
8		S	12.50	3.35	6.44	88		0-1	47	
		D	12.30	.32	.44	87		0-0	42	
9		S	12.70	17.75	5.94	96		0-0	20	
		D	12.70	.77	6.00	97		0-0	20	
10		S	12.70	16.71	5.89	94		0-0	16	
		D	12.25	.68	.64	89		0-3	16	
11		S	12.00	17.72	.94	95		0-0	11	
		D	12.00	.75	.85	92		0-1	11	
12		S	13.50	16.49	6.04	97		0-0	16	
		D	13.25	.79	5.94	96		0-3	20	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947										
30. vii	1	S	16.50	19.58	5.42	96		1-5	26	
		D	16.30	.60	.42	95		0-8	34	
	2	S	15.70	.53	.49	96		0-7	36	
		D	15.80	.64	.50	96		5-5	23	
	3	S	12.50	18.74	6.10	99		0-0	3	
		D	12.60	19.20	.00	98		0-5	5	
	4	S	14.30	.49	5.88	100		0-3	3	
		D	13.50	.44	.80	97		0-5	3	
	5	S	13.10	.40	.77	96		0-5	3	
		D	13.05	.40	.15	86		0-5	3	
	7	S	14.00	.43	.90	99		0-5	5	
		D	13.00	.40	.99	98		0-5	3	
	8	S	11.20	11.77	6.26	92		0-0	3	
		D	11.70	13.03	.23	93		0-1	0	
	9	S	11.50	19.05	.20	99		0-1	0	
		D	11.55	.03	.07	97		0-3	0	
	10	S	11.50	18.17	.14	97		0-1	0	
		D	11.45	.46	.07	97		0-3	0	
	11	S	11.30	19.19	.25	100		0-1	0	
		D	11.25	.16	.30	101		0-3	0	
	12	S	12.00	17.23	5.57	88		0-0	0	
		D	11.70	.18	6.17	97		0-3	0	
	27. viii	1	S	15.50	19.68	5.78	100		8-6	7
			D	15.50	.71	.87	102		8-3	0
2		S	14.50	.68	.96	102		6-10	0	
		D	14.80	.65	.96	102		7-7	0	
3		S	13.70	.63	7.10	119		6-8	0	
		D	13.80	.63	.15	120		6-8	0	
4		S	14.30	.63	6.57	111		10-2	0	
		D	14.15	.68	.55	111		6-7	0	
5		S	13.10	.60	5.94	99		1-8	0	
		D	12.95	.58	.87	98		6-5	0	
7		S	13.20	.60	.87	97		6-5	0	
		D	13.00	.62	.90	98		7-4	0	
8		S	11.50	18.76	6.20	99		6-0	0	
		D	11.60	.83	.26	100		3-6	0	
9		S	12.50	19.54	.15	101		6-3	0	
		D	12.30	.54	.15	100		6-4	0	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
27. viii	10	S	12.50	19.42	6.16	101		1-8	0
		D	12.30	.46	.08	99		6-5	0
	11	S	11.90	.61	.13	100		1-10	0
		D	11.70	.66	.14	100		3-8	0
	12	S	13.10	18.36	.20	102		6-8	0
		D	13.40	.35	.15	101		7-7	0
11. ix	13	S	18.00	15.72	6.10	106		1	8
	14	S	15.50	0.10	.77	95		2	8
	15	S	17.00	.06	7.11	102		0	13
30. ix	1	S	17.00	19.68	5.58	99		4-14	0
		D	18.00	.68	.58	101		1-14	0
	2	S	17.20	.69	.65	101		4-10	0
		D	17.10	.69	.64	101		2-15	0
	3	S	17.20	.45	.47	98		3-9	0
		D	17.90	.49	.32	96		2-16	0
	4	S	17.40	.70	.43	97		13-6	0
		D	17.40	.69	.42	97		4-11	0
	5	S	17.25	.70	.39	96		12-6	0
		D	16.20	.68	.32	93		14-3	0
	7	S	17.30	.69	.33	95		8-4	0
		D	17.25	.69	.38	96		11-8	0
	8	S	17.10	.58	.23	93		7-13	0
		D	18.00	.54	.23	95		2-7	0
	9	S	17.50	.86	.46	99		5-6	0
		D	17.40	.78	.34	96		3-17	0
	10	S	17.50	.72	.35	96		6-9	0
		D	17.50	.74	.38	97		9-6	0
	11	S	17.60	.84	.17	93		8-4	8
		D	17.55	.84	.22	94		5-10	0
	12	S	17.50	.60	.09	92		8-6	0
		D	17.70	.69	.20	94		8-4	0

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
26. x	5	S	19.80	19.84	5.20	97		4-11	0
		D	19.30	.83	.05	94		6-9	0
	7	S	19.55	.83	.24	98		6-1	0
		D	19.40	.86	.04	94		6-5	0
28. x	9	S	20.00	.96	.80	109		3-0	0
		D	19.90	.96	.87	110		5-10	0
	2	S	18.50	.77	.55	102		4-3	0
		D	18.60	.73	.55	102		5-8	0
	3	S	19.05	.85	.40	100		2-15	0
		D	19.20	.87	.40	100		4-0	0
	4	S	19.00	.79	.35	99		4-4	0
		D	18.60	.73	.54	102		6-0	0
	8	S	19.70	.57	.78	108		0-8	0
		D	19.80	.53	.93	109		0-15	0
	10	S	19.00	.91	.01	93		2-0	0
		D	19.10	.92	.00	93		4-0	0
11	S	19.50	20.16	.00	93		2-5	2	
	D	19.10	.07	.10	96		6-0	0	
12	S	19.25	19.78	.00	93		2-5	0	
	D	19.20	.77	4.95	92		2-2	0	
29. x	1	S	16.50	.73	5.10	90		6-5	14
		D	16.60	.68	.10	90		9-9	5
20. xi	1	S	19.10	19.53	5.20	96		6-20	4
		D	19.20	.53	.25	97		6-20	4
	2	S	20.25	.62	.20	98		6-12	0
		D	20.40	.60	.45	103		4-16	0
	3	S	21.00	.65	.34	102		5-15	0
		D	21.10	.66	.25	100		4-6	0
	4	S	20.00	.61	.30	99		5-15	0
		D	20.20	.63	.34	100		4-25	0
	5	S	20.80	.63	.30	100		5-19	4
		D	20.30	.60	.13	96		4-6	5
	7	S	20.80	.63	.05	96		7-17	4
		D	20.40	.62	.40	102		7-19	3
	8	S	23.75	.57	.81	116		3-22	3
		D	24.00	.57	.85	117		3-17	3
	9	S	21.50	.72	.18	99		4-27	8
		D	21.60	.76	.11	98		4-13	0

Location: **PORT STEPHENS**

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947 20. xi	10	S	21.80	19.68	5.00	96		7-19	5
		D	22.00	.67	4.86	94		5-28	3
	11	S	22.25	.74	5.94	116		5-17	3
		D	22.30	.79	4.83	94		5-18	2
	12	S	21.90	.62	.91	95		5-17	2
		D	21.95	.62	.83	93		5-17	5
22. xi	5	S	20.70	17.32	5.43	100		8-11	0
		D	22.60	.79	.37	103		10-7	0
	7	S	24.20	16.45	.27	102		6-14	9
		D	19.80	18.16	.01	92		8-11	6
	9	S	24.30	16.47	.12	99		6-14	0
		D	21.70	17.07	.09	95		7-11	4
	10	S	26.20	14.78	.04	99		13	21
		D	25.80	.88	4.40	86		17-6	19
	11	S	25.30	15.67	.82	94		8-16	4
		D	25.20	.61	.83	94		5-12	5
	12	S	26.20	12.80	5.40	102		8-14	13
		D	26.50	14.07	.50	108		9-9	15
23. xi	1	S	20.30	17.96	.18	96		4-20	7
		D	17.60	19.31	.41	98		7-22	16
	2	S	20.80	18.19	.30	99		7-16	0
		D	19.60	.62	.55	102		10-9	7
	3	S	24.50	12.33	.05	94		3-12	0
		D	21.30	17.83	.27	99		6-10	0
	4	S	22.80	.03	.25	100		8-8	5
		D	21.80	.62	.18	98		3-12	0
	8	S	27.90	3.70	4.03	73		6-9	17
		D	27.80	.43	.26	76		6-0	9

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948 27.1	1	S	21.90	19.42	5.15	99		5	13
		D	22.00	.54	.03	94	0	8	
	2	S	22.20	.45	.02	97	3	11	
		D	22.40	.36	.10	99	1	3	
	3	S	24.30	18.07	4.81	93	9	5	
		D	23.80	.22	.82	95	8	32	
	4	S	23.70	.07	.80	94	10	1	
		D	22.40	19.24	.92	96	7	0	
	5	S	23.90	18.02	.95	97	7	0	
		D	23.30	.26	.67	91	7	9	
	7	S	25.00	17.67	5.08	99	0	7	
		D	23.30	18.11			7	16	
	8	S	23.10	19.00	.15	101	3	0	
		D	23.10	.00	.22	102	4	0	
	9	S	25.20	16.88	4.80	95	5	12	
		D	25.40	.93			7	19	
	10	S	24.90	.05	.50	88	8	17	
		D	25.10	.19	.46	87	6	16	
	11	S	26.40	.10	.77	96	5	10	
		D	26.00	.05	.85	96	9	6	
	12	S	25.20	15.21	.42	86	5	21	
		D	25.10	.35			10	14	
	24.11	1	S	21.40	19.56	5.41	103	9-6	0
			D	21.20	.55	.40	103	10-1	0
2		S	20.60	.53	.67	107	7-10	0	
		D	22.20	.51	.47	106	11-3	0	
3		S	23.50	18.87	.40	107	8-6	4	
		D	21.70	19.28	.16	99	8-4	0	
4		S	22.50	.16	4.82	94	9-5	5	
		D	21.80	.28	.85	93	23-0	11	
5		S	22.70	.07	.92	96	11-4	4	
		D	22.50	.05	.90	95	1-14	8	
7		S	23.90	18.75	5.05	100	9-9	3	
		D	23.25	.70	4.90	96	13-4	6	
8		S	23.60	.46	5.88	113	8-9	0	
		D	23.40	.48	.80	114	6-11	0	
9		S	24.40	.52	4.40	88	6-9	6	
		D	24.30	.52	.27	85	8-9	4	

Location: FORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
24.11	10	S	24.40	18.20	4.66	92		15-9	3
		D	24.00	.01	.50	88		10-17	0
	11	S	24.60	.40	.44	89		22-0	0
		D	24.40	.39	.68	93		4-10	3
	12	S	24.80	17.58	.38	87		8-14	0
		D	25.05	.62	.30	86		18-1	1
23.111	1	S	21.20	19.41	4.60	87		1-3	8
		D	21.30	.46	5.08	97		4-13	12
	2	S	21.50	.12	.08	97		4-9	6
		D	21.40	.37	.28	101		6-0	5
	3	S	21.80	18.51	4.93	94		7-0	8
		D	21.70	.72	.85	92		7-7	6
	4	S	21.75	.77	.96	95		10-1	0
		D	21.30	19.36	5.02	96		7-10	14
	5	S	22.00	18.53	4.88	93		7-6	7
		D	21.50	.65	.70	89		8-6	5
	7	S	22.10	.21	.92	94		7-4	5
		D	21.60	.61	.64	88		10-0	16
	8	S	21.30	19.20	5.08	91		6-2	0
		D	21.20	.26	.05	96		10-4	3
	9	S	22.10	18.04	4.50	86		8-6	20
		D	22.00	.02	.62	88		8-3	9
	10	S	22.50	16.92	.74	90		8-6	6
		D	21.80	18.08	.88	92		7-4	7
	11	S	22.50	16.62	.77	89		3-10	6
		D	22.20	.89	.83	91		3-8	13
	12	S	22.00	15.95	.60	86		10-3	7
		D	21.80	16.47	.51	84		10-1	6

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
28. iv	5	S	17.70	19.34	5.18	93		6-20	0
		D	17.60	.34	.19	93		7-8	0
	7	S	17.50	.13	.30	95		7-8	0
		D	17.40	.25	.15	92		7-6	0
	9	S	17.00	18.74	.32	94		6-3	0
		D	15.60	.82	.31	91		6-7	0
	10	S	17.80	.57	.30	94		6-10	0
		D	17.70	.56	.34	95		7-7	0
	11	S	17.90	.36	.34	95		5-9	0
		D	17.00	.64	.40	95		10-4	0
	12	S	17.20	.07	.28	93		5-8	0
		D	17.10	.22	.20	91		2-14	0
29. iv	1	S	19.40	19.58	.21	97		3-7	0
		D	19.20	.58	.20	96		5-2	0
	2	S	18.50	.44	.37	98		6-12	0
		D	18.50	.44	.32	97		5	0
	3	S	18.20	.20	.37	97		3-6	0
		D	17.80	.33	.21	94		7-2	0
	4	S	18.25	.38	.31	97		6-7	0
		D	17.50	.39	.24	94		7-4	0
8	S	18.50	15.85	.20	91		2-6	0	
	D	18.80	18.40	.44	98		3-7	0	
25. v	5	S	16.50	18.86	5.52	97		5-9	0
		D	16.80	.98	.36	94		4-5	0
	7	S	15.90	.62	.60	97		4-3	0
		D	16.60	.98	.30	93		3-5	5
	9	S	15.00	.31	.80	98		1-12	0
		D	15.35	.29	.83	99		7-3	0
	10	S	15.00	.08	.62	95		4-8	0
		D	15.15	.10	.65	96		6-1	5
	11	S	15.00	.00	.83	98		10-0	0
		D	14.95	.08	.75	97		6-3	0
	12	S	14.50	17.57	.58	93		4-13	3
		D	14.55	.89	.41	90		3-9	0
26. v	1	S	20.80	19.80				0-4	6
		D	20.65	.72	.15	98		0-6	6
	2	S	19.90	.49	.20	97		6-1	0
		D	19.55	.51	.45	101		4-13	0
4	S	19.30	.57	.13	95		0-11	0	
	D	19.20	.56	.22	96		0-4	4	

Location: FORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948 21. vi	5	S	15.20	16.67				2-4	0
		D	17.60	18.05			8-8	11	
	7	S	15.00	16.28				7-18	0
		D	22.80	18.04	5.40	104	8-8	7	
	9	S	15.00	16.28	.74	95	1-8	0	
		D	15.95	.52			1-11	0	
	10	S	15.50	9.87			2-10	15	
		D	25.60	16.63	.74	114	7-7	6	
	11	S	15.50	12.31	.95	95	4-13	6	
		D	21.80	16.48	.55	103	5-9	0	
	12	S	15.00	9.38			3-9	22	
		D	25.00	15.04			9-10	9	
22. vi	1	S	18.20	19.18	.42	98	8-8	9	
		D	18.40	.37			10-3	7	
	2	S	16.30	17.95	.65	97	8-4	15	
		D	16.50	18.10	2.28	40	9-2	7	
	3	S	15.50	14.97	5.73	94	7-7	6	
		D	16.10	17.91	.44	93	9-6	9	
	4	S	16.00	.83	.63	96	5-10	9	
		D	16.15	18.08	.51	95	10-3	4	
	8	S	15.80	12.78	.32	86	1-6	19	
		D	16.30	17.91	.44	94	5-10	15	
	29. vii	1	S	16.50	19.20	5.62	99	10-4	21
			D	16.60	.58	.75	101	8-7	26
2		S	15.30	.03	.91	101	8-6	16	
		D	16.10	.48	.55	97	8-2	29	
3		S	13.80	16.31	6.44	104	4-9	7	
		D	13.85	18.69	.33	106	7-2	6	
4		S	13.70	.89	5.94	99	6-6	5	
		D	13.40	.93	6.02	100	7-9	8	
5		S	13.50	.82	.04	100	7-7	8	
		D	13.40	.74	.10	101	4-8	0	
7		S	13.50	.84	.05	100	7-6	0	
		D	11.40	.84	.19	99	6-6	7	
8		S	14.50	10.26	7.60	116	7-6	23	
		D	14.70	17.43	6.41	107	7-4	11	
9		S	12.40	18.44	.39	103	5-4	4	
		D	12.40	.45	.33	102	3-6	4	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1948										
29. vii	10	S	12.50	18.31	6.30	102		5-6	4	
		D	12.80	.15	.32	103		4-10	4	
	11	S	11.90	.32	.35	102		2-8	0	
		D	11.90	.41	.24	100		2-17	0	
	12	S	11.70	16.39	.49	101		4-5	0	
		D	11.70	.70	.31	99		4-3	3	
2. ix	1	S	14.60	19.51	5.98	102		5-7	0	
		D	14.80	.48	.86	100		5-7	0	
	2	S	15.20	.58	.85	101		6-5	0	
		D	15.30	.56	.83	101		10-3	0	
	3	S	13.90	.27	6.00	101		4-11	0	
		D	13.90	.32	.00	101		5-3	0	
	4	S	14.50	.34	.05	103		5-4	0	
		D	14.60	.35	.08	103		5-7	20	
	8	S	13.50	18.54	5.79	96		3-12	0	
		D	13.55	.48	6.27	104		3-7	0	
	3. ix	5	S	13.90	19.02	.20	104		3-9	0
			D	14.00	.19	5.37	90		9-0	0
7		S	14.40	.30	.98	101		5-3	0	
		D	14.50	.32	6.02	102		5-6	0	
9		S	13.90	18.97	.73	113		7-3	0	
		D	13.85	19.04	.43	108		4-7	0	
10		S	13.60	18.40	5.87	97		2-7	0	
		D	13.70	.48	.95	99		3-5	0	
11		S	13.70	.99	6.36	106		3-4	0	
		D	13.65	19.02	.40	107		9-4	0	
12		S	13.70	18.02	5.90	97		3-0	0	
		D	14.00	.19	.93	99		4-7	2	
17. xi	2	S	19.20	19.52			5-18			
1949										
13. i	2	S	23.20	19.56			7-10	0		
14. ii	2	S		19.68			2-21	7		
10. iii	2	S	29.60	14.93	4.70	98	7-11	5		

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
7. iv	2	S	23.50	18.02	5.29	103		8-0	10
5. v	2	S	18.10	18.29	5.15	92		4-8	16
2. vi	2	S	18.40	19.22	5.41	98		15-0	4
30. vi	2	S	16.90	18.49	5.77	101		7-5	16
25. viii	2	S	16.95	19.30	5.71	101		2-11	4
23. ix	2	S	15.80	18.61				8-7	5
20. x	2	S	20.00	18.53				6-14	0
16. xi	2	S	21.70	19.06	6.11	117		8-6	0
15. xii	2	S	19.90	19.55	4.98	93		0-4	3
1950									
11. i	2	S	23.70	19.28	5.28	105		8-5	32
16. ii	2	S	24.40	18.30	5.14	102		0-12	4
4. iv	2	S	22.00	19.09	4.77	92		6-12	3
1. v	2	S	19.80	19.27	5.20	97		5-4	5
1. vi	2	S	19.50	18.78	5.43	100		0-14	3
3. vii	2	S	15.70	14.07				9-4	27
1. viii	2	S	16.80	15.54	5.05	86		1-6	46
30. viii	2	S	16.40	16.90	5.86	100		5-4	0
1. x	2	S	17.30	19.25	4.77	85			
1. xi	2	S	20.00	19.11	5.78	108		5-8	

Location: PORT STEPHENS

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950 4. xii	2	S	20.80	19.04	4.70	89		38	
29. xii	2	S	21.60	19.27	5.46	104		6-7	0

Location: TILLIGERRY CREEK

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
7. vi	1	S	13.30	13.85	6.37	99		3-3	13
	2	S	13.25	6.82	5.37	77		4-13	14
11. x	1	S	22.10	14.24	5.59	102	7.90	2-16	35
	2	S	23.50	7.54	4.57	80	.53	13-25	27
5. xi	1	S	16.50	17.71	5.01	87	8.52	3-22	20
	2	S	17.00	14.69	4.87	82	7.51	2-25	14.0
10. xii	1	S	23.90	18.47	5.30	105	7.94	7-13	16
	2	S	24.60	15.61	4.52	87	.37	5-44	54
1950									
17. i	1	S	26.00	19.24	4.74	98	7.87	0-45	13
	2	S	27.50	17.02	.14	85	.29	3-20	0
18. ii	1	S	24.00	16.59	4.53	88	7.27	4-12	0
	2	S	23.10	9.05	3.22	57	.27	5-1	8
17. iii	1	S	24.00	17.51	4.91	96		5-14	4
	2	S	24.40	14.45	.33	82		4-21	22
20. v	1	S	16.40	16.19	5.77	98	7.85	3-7	6
	2	S	16.00	12.54	.42	88	.35	3-6	9
19. vii	1	S	15.80	12.50	5.78	93	7.70	1-8	21
	2	S	15.50	3.18	.22	75	6.90	4-13	21
27. viii	1	S	15.80	12.02	8.38	134	7.73	3-13	5
	2	S	15.40	4.13	5.77	84	6.72	4-17	33
24. ix	1	S	18.40	14.05	5.29	91	7.95	4-9	3
	2	S	22.90	6.23	4.09	69	.29	10-7	35
9. xi	1	S	22.30	17.55	5.53	105	7.97	5-20	0
17. xii	1	S	23.80	16.73	5.57	108	7.47	7-8	2
	2	S	24.10	13.14	.35	100	.88	5-18	18

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1945</b>									
24. ix	5	S	16.90	16.46	5.30	91		0-2	13
		D	15.83	16.67	5.06	86		0-2	12
	6	S	16.20	17.79	5.04	87		4-2	30
		D	16.03	18.56	4.98	87		5-0	32
	7	S	16.00	15.14	5.06	84		1-3	19
		D	16.00	18.66	5.03	87		4	27
	4	S	16.00	18.66	4.96	86		4	42
		D	16.00	18.66	4.96	86		4	42
	1	S	15.90	19.25	3.41	59		5-0	17
		D	16.00	19.41	5.32	93		4-1	17
25. ix	8	S	16.40	16.84	4.98	85		1	27
		D	16.30	17.40	4.94	85		1	38
	10	S	16.40	16.22	4.98	85		2	20
		D	16.60	16.20	4.98	95		5	25
	11	S	16.70	14.77	5.21	88		0-5	20
		D	16.65	14.94	4.17	70		1-5	17
	12	S	17.00	11.99	5.71	85		2	25
		D	16.72	12.46	5.39	88		0	22
	13	S	17.00	9.34	6.11	97		0-3	35
		D	16.82	9.64	5.89	93		0-2	43
	14	S	17.00	6.80	6.32	95		0	66
		D	16.87	6.97	5.13	79		0	70
	9	S	17.00	14.16	5.39	90		0-2	10
		D	16.50	15.12	5.18	87		1-1	17
26. ix	3	S	15.90	18.04	4.53	78		3-5	30
		D	15.90	18.14	4.62	79		5-0	13
	16	S	17.20	0.38	5.78	85		0-3	152
		D	16.50	0.38	5.78	85		0-3	152
27. ix	17	S	16.80	0.08	6.87	97		0-6	180
		D	16.80	0.08	6.87	97		0-6	180
	18	S	16.60	0.04	5.88	84		0-5	280
		D	16.60	0.04	5.88	84		0-5	280
	19	S	17.00	0.04	6.61	94		0-3	180
		D	17.00	0.04	6.61	94		0-3	180
	20	S	16.90	0.05	6.13	88		0-2	165
		D	16.90	0.05	6.13	88		0-2	165
	21	S	16.10	0.05	6.29	88		0-8	97
		D	16.10	0.05	6.29	88		0-8	97
	22	S	17.30	0.05	6.49	93		0-6	84
		D	17.30	0.05	6.49	93		0-6	84
	23	S	16.70	0.05	6.61	94		0-2	64
		D	16.70	0.05	6.61	94		0-2	64

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl %/∞	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1946</b>									
14.1	1	S	22.40	19.61	5.08	99		0-9	0
		D	21.20	19.60	5.17	99		0-7	0
	2	S	26.00	19.23	4.63	95		0	0
		D	26.00	19.27	4.63	96		0	0
	3	S	27.00	19.07	4.22	88		0-20	5
		D	26.00	19.17	3.36	70		3-19	10
	4	S	25.60	19.19	4.42	90		0	28
		D	24.50	19.20	4.36	88		0	0
	5	S	27.00	18.91	4.93	99		0-15	0
		D	27.00	18.90	4.90	102		0-11	0
	7	S	27.00	19.00	3.94	83		0	0
		D	27.00	19.00	4.01	84		13	0
	6	S	24.90	19.09	4.40	89		6-0	23
		D	25.40	19.16	4.32	88		6-0	17
15.1	8	S	26.50	18.57	3.86	80		8	67
		D	26.90	18.56	3.90	79		9	127
	9	S	27.00	17.86	4.20	87		4-0	38
		D	27.00	17.87	4.13	85		5-0	30
	10	S	26.90	17.94	4.20	87		5	60
		D	27.20	18.03	4.01	83		6	63
	11	S	27.00	17.85	3.73	77		5-8	90
		D	27.00	16.84	3.55	73		8-0	104
	12	S	27.00	14.23	3.87	77		5	127
		D	27.00	14.56	3.78	75		5	140
	13	S	27.00	12.22	3.85	75		0-13	80
		D	27.00	12.21	6.42	124		1-5	127
	14	S	27.00	9.45	4.11	76		1	104
		D	27.00	9.82	3.92	74		0	104
	15	S	27.00	6.85	4.28	78		0-8	158
		D	27.00	6.90	4.23	78		0-7	114
	16	S	27.00	5.27	4.51	81		0-5	127
		D	27.00	5.69	4.25	77			90
18.1	25	S	19.40	0.04	6.07	91		2	80
		S	17.00	0.04	4.70	68		2	0
	24	S	26.70	0.08	4.63	79		0-9	400
		S	26.80	0.05	4.25	73		0-10	107
19.1	22	S	24.50	0.05	3.08	51		0-13	0
		S	24.60	0.04	4.05	67		1-8	10

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1946</b>									
19. 1	17	S	27. 20	1. 43	4. 70	82		2-4	44
		D	27. 40	1. 53	4. 61	81		6-6	50
	19	S	28. 00	0. 28	5. 04	88		1-6	0
		D	28. 00	0. 26	4. 57	79		2-6	0
	20	S	26. 70	0. 05	4. 52	77		1-12	0
		D	27. 40	0. 04	4. 73	81		0-6	0
21	S	26. 00	0. 05	4. 42	74		4-9	0	
19. 11	8	S	23. 60	18. 83	4. 23	84		7	59
		D	23. 75	19. 02	4. 14	82		5	47
	9	S	24. 45	18. 32	5. 88	114		4-8	69
		D	24. 34	18. 33	4. 30	85		5-0	99
	10	S	24. 35	18. 60	4. 07	82		5	69
		D	24. 20	18. 30	4. 20	84		6	69
	11	S	24. 70	18. 28	4. 15	83		5-7	70
		D	24. 95	18. 30	4. 20	85		7-1	81
	12	S	25. 45	16. 73	4. 35	87		4	121
		D	26. 20	16. 92	3. 97	80		2	121
	13	S	25. 90	14. 64	3. 70	73		0-5	145
		D	25. 30	14. 73	3. 60	70		2-1	158
	14	S	26. 20	12. 48	3. 79	73		2	158
		D	26. 30	12. 54	3. 85	72		3	176
	15	S	26. 25	9. 42	4. 08	76		2-2	162
		D	26. 60	9. 72	4. 03	76		2-7	158
	16	S	26. 30	7. 68	4. 45	82		2-1	158
		D	26. 20	7. 86	4. 30	79		2-7	158
20. 11	1	S	22. 50	19. 59	5. 00	98		3-1	12
		D	23. 85	19. 61	5. 64	112		5-2	20
	2	S	23. 90	19. 31	4. 55	91		5-15	10
		D	24. 45	19. 29	3. 36	68		13-7	39
	3	S	24. 80	19. 08	3. 44	70		15-5	20
		D	25. 00	19. 22	2. 76	56		15-5	12
	4	S	23. 30	19. 37	4. 70	93		6	27
		D	23. 40	19. 43	4. 73	93		6	32
	5	S	24. 60	18. 66	6. 32	126		2-9	9
		D	24. 45	18. 66	6. 50	130		1-10	9

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
20.11	6	S	23.30	19.12	4.50	88		5-6	47
		D	23.90	19.17	4.10	82		7-2	56
	7	S	24.90	18.78	4.38	88		6-0	47
		D	25.00	18.81	3.91	79		5-0	69
22.11	25	S	19.00	0.04	6.60	99		0-9	48
	26	S	27.50	0.05	5.25	91		0-26	93
	24	S	25.50	0.05	4.05	68		0-20	16
23.11	23	S	25.00	0.05	5.35	89		0-18	113
	22	S	25.00	0.03	4.70	78		0-7	26
	21	S	25.50	0.04	4.67	78		0-14	12
		D	24.80	0.05	4.55	75		0-12	10
	20	S	25.60	0.05	5.50	92		0-9	12
	19	S	27.00	0.18	5.60	96		0-1	9
		D	27.40	0.18	5.50	94		0-9	9
	17	S	27.60	0.96	4.96	86		0-1	42
		D	27.00	0.86	5.00	87		0-9	44
	18a	S	27.00	0.02	4.21	72		0-6	136
22.111	6	S	21.80	19.34	4.51	87		2-4	38
		D	22.30	19.38	4.53	88		1-5	76
	7	S	22.50	19.05	4.50	87		1-0	65
		D	22.60	19.07	4.57	89		1-1	76
	8	S	22.70	18.96	4.40	85		0	76
		D	22.90	18.95	4.40	86		1	88
	9	S	23.00	18.61	4.50	88		0-8	53
		D	21.80	18.59	4.35	81		0-9	53
	10	S	22.70	18.70	4.40	85		0	88
		D	22.30	18.71	4.26	82		0	88
	11	S	23.00	17.90	4.40	85		2-2	113
		D	23.20	17.87	4.21	81		1-6	113
	12	S	24.20	16.29	4.35	82		1	156
		D	23.80	16.22	4.55	87		0	279
	13	S	23.50	14.21	4.39	82		0-11	230
		D	23.10	14.34	4.20	78		0-6	280
	14	S	23.60	12.01	4.45	80		2	303
		D	23.10	12.11	4.35	79		0	330
23.111	15	S	23.30	9.73	4.78	85		0-4	10
		D	23.00	9.66	4.65	82		0-4	12

Location: **HAWKESBURY RIVER**

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1946 23.111	16	S	23.40	8.37	5.20	91		0-2	15	
		D	23.00	8.64	4.90	86		0-6	12	
	5	S	24.20	18.48	5.10	100		0-6	103	
		D	22.70	19.11	3.70	72		0-5	103	
	1	S	21.70	19.56	4.90	94		1-7	103	
		D	21.20	19.58	5.17	99		1-9	103	
	2	S	22.90	19.44	4.60	90		2	124	
		D	22.40	19.45	3.90	76		5	115	
	3	S	22.90	19.29	3.34	65		12-7	70	
		D	22.70	19.34	3.16	62		12-14	88	
	4	S	22.60	19.42	4.60	89		2	83	
		D	22.40	19.45	4.55	86		0	83	
	15.1v	5	S	18.40	18.39	4.60	83		2-4	30
			D	18.35	18.38	4.60	83		4-3	15
		6	S	18.75	19.02	4.53	83		7-6	61
			D	18.90	19.13	4.47	82		8-5	61
7		S	18.00	18.38	4.49	80		5-4	42	
		D	18.30	18.55	4.30	77		5-3	45	
4		S	19.00	19.23	4.52	82		7	43	
		D	19.00	19.26	4.48	82		9	55	
2		S	20.00	18.67	4.35	81		9-4	30	
		D	20.50	19.31	4.15	78		10-3	28	
3		S	18.80	18.91	4.49	82		23	45	
		D	19.80	18.45	3.72	69		6	120	
1		S	19.20	19.29	4.60	86		7-3	45	
		D	19.20	19.49	4.52	83		6-5	23	
17.v		21	S	14.90	0.26	5.50	76		0-24	300
			D	14.50	0.07	5.64	77		0-11	300
	20	S	15.15	0.05	5.71	79		0	300	
		D	15.60	0.05	5.54	78		0	255	
	19	S	16.85	0.05	4.89	69		0-20	410	
		D	17.25	0.06	4.97	72		0-16	512	
	17	S	15.90	0.06	4.75	67		0-23	580	
		D	16.50	0.05	4.79	71		0-13	680	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
17.v	18a	S	15.50	0.04	6.00	84		0-14	512
	18	S	12.90	0.03	5.67	76		0-9	512
	22	S	14.00	0.04	6.20	84		0-10	290
	23	S	14.40	0.05	5.70	78		0-9	410
	24	S	13.20	0.05	5.37	72		0-11	512
	26	S	12.80	0.04	6.60	88		0-8	135
	25	S	13.20	0.04	7.12	95		0-10	13
20.v	4	S	16.30	18.07	5.78	100		0	63
		D	16.95	18.38	5.52	97		2	57
	1	S	18.00	19.19	5.57	102		0-6	20
		D	18.10	19.48	5.65	102		3-1	18
	2	S	17.30	18.00	4.53	80		0	54
		D	19.70	18.76	3.01	56		9	160
	3	S	17.40	16.24	3.60	62		13-7	297
		D	18.70	18.24	5.70	103		5-9	254
	5	S	14.95	15.49	4.38	72		0-6	125
		D	14.95	15.48	6.15	101		0-6	138
	6	S	15.53	16.28	5.60	94		1-4	160
		D	16.50	16.77	5.27	90		2-6	110
	7	S	14.70	15.10	6.04	98		0-5	125
		D	14.90	15.60	5.52	90		0-5	143
21.v	8	S	15.50	13.47	5.20	84		0	208
		D	15.70	14.05	4.38	72		0	208
	9	S	15.30	12.05	6.75	107		0-5	263
		D	15.50	12.26	5.40	103		0-2	263
	10	S	15.20	11.03	5.00	78		0-0	297
		D	15.90	12.81	5.00	81		1	297
	11	S	16.00	8.48	5.04	78		0-0	570
		D	16.00	11.34	5.40	86		0-4	297
	12	S	16.10	6.33	4.93	74		0	510
		D	16.20	8.95	4.78	74		0	416
	13	S	15.20	4.62	4.97	72		0-0	680
		D	16.30	6.36	4.68	71		0-0	510
	14	S	14.50	2.29	5.02	70		0	680
		D	16.20	3.09	4.80	70		0	680
	15	S	14.20	0.44	5.06	69		0-11	680
		D	16.10	0.46	4.79	68		0-13	680
16	S	14.60	0.27	5.00	69		0-20	680	
	D	16.00	0.27	4.38	62		0-33	680	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
17. vi	1	S	16.80	18.69	5.44	95		1-1	20
		D	17.95	19.57	5.13	93		0-2	5
	4	S	15.50	17.61	5.33	90		2	78
		D	15.90	18.61	5.00	86		0	35
	2	S	14.80	17.96	5.50	92		0	3
		D	16.10	18.42	3.92	68		6	95
3	S	16.70	17.43	4.83	81		5-6	100	
	D	18.20	18.72	1.73	31		20-0	180	
18. vi	6	S	14.70	16.89	5.23	87		5-4	120
		D	14.90	17.62	5.08	85		0-66	73
	8	S	14.20	15.17	5.35	86		0	171
		D	14.30	16.44	5.20	85		0	140
	10	S	14.30	13.51	5.40	86		0	210
		D	13.80	14.67	5.32	85		0	190
	11	S	14.40	11.21	5.73	89		2-2	315
		D	13.60	11.76	5.60	86		0-2	315
	12	S	14.20	8.78	5.55	83		0	450
		D	13.50	10.53	5.25	79		0	370
	13	S	14.10	6.32	5.34	78		0-1	630
		D	13.60	7.51	4.83	70		0-0	450
	14	S	14.00	3.53	5.47	77		0	630
		D	13.50	4.40	5.24	74		0	630
	15	S	13.70	1.28	5.37	73		0	900
		D	13.55	1.19	5.17	70		0	900
19. vi	16	S	11.50	0.22	5.53	72		0	378
		D	11.55	0.19	5.37	70		0	450
9	S	13.50	12.99	5.53	86		0	180	
	D	13.40	13.63	5.17	81		0	165	
29. vi	21	S	10.80	0.05	6.75	86		0-9	223
		D	10.50	0.05	7.10	89		0-11	233
	20	S	10.50	0.05	6.95	87		0-13	233
		D	10.50	0.05	6.60	84		0-9	760
	18	S	11.00	0.05	6.60	84		0-9	760
	18a	S	10.60	0.04	7.10	90		0-8	760
		D	10.60	0.04	7.10	90		0-8	760
	17	S	13.60	0.06	6.45	87		0-11	630
		D	12.80	0.06	6.50	86		0-11	560
	19	S	12.00	0.06	6.01	79		0-14	450
		D	10.60	0.07	6.02	76		0-25	608
	22	S	10.60	0.04	7.32	92		0-8	248
23	S	10.90	0.06	6.47	82		0-6	170	
24	S	10.80	0.07	5.75	73		0-13	760	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1946</b>									
29. vi	26	S	10.00	0.06	7.70	96		0-6	115
	25	S	10.50	0.04	7.64	96		0-5	53
	7	S	12.50	16.45	6.00	95		0	12
		D	12.40	16.78	5.67	90		0	35
	5	S	12.70	16.57	6.18	98		0	30
		D	12.70	16.69	5.74	92		0	35
15. viii	21	S	13.90	0.37	6.56	89		0-6	100
		D	13.40	0.06	5.60	75		0-6	103
	20	S	14.20	0.07	6.80	92		0-3	122
		D	14.00	0.06	6.55	89		0-5	138
	18	S	14.20	0.05	5.92	81		0-2	452
	18a	S	14.30	0.04	6.80	93		0-2	452
	17	S	14.10	0.07	5.65	76		0-3	352
		D	13.00	0.09	5.53	74		0-8	290
	19	S	13.50	0.08	5.51	74		0-7	182
		D	12.75	0.08	5.61	75		0-12	182
16. viii	22	S	14.00	0.05	7.50	102		0-4	122
	23	S	14.50	0.06	6.59	90		0-6	150
		S	14.80	17.86	5.54	93		2	12
	6	D	14.00	18.43	5.18	86		2	10
		S	13.60	17.32	5.56	91		1	12
	8	D	13.70	17.20	5.38	88		1-7	10
		S	13.70	16.32	5.53	89		2	10
	10	D	13.70	16.28				1	12
		S	13.70	13.37	5.90	92		0	48
	11	D	13.40	14.73	5.63	89		0-1	26
		S	13.70	12.30	6.76	104		0	59
	12	D	13.50	12.32	5.63	87		0	71
		S	13.70	10.24	6.04	91		0-2	103
	13	D	13.20	10.40	5.10	76		0-3	122
		S	13.60	8.01	5.90	87		0	140
	14	D	13.30	7.90	5.89	86		0	140
S		13.60	5.56	5.49	81		0-0	170	
15	D	13.00	5.47	6.09	86		0-0	160	
	S	14.00	3.69	6.40	90		0	182	
16	D	13.20	3.80	6.30	87		0	182	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
17. viii	9	S	13.00	14.95	5.46	86		0-3	16
		D	12.89	15.57	5.47	86		0-5	19
	7	S	13.50	17.10	5.53	81		0-3	16
		D	13.40	17.23	5.06	82		0-7	16
	5	S	14.00	17.66	5.53	88		0-0	16
		D	13.40	17.75	5.33	87		0-6	16
	4	S	14.40	18.79	5.56	94		0-6	16
		D	14.30	19.16	5.52	93		0-6	23
	2	S	14.00	18.36	5.67	86		0	12
		D	13.75	18.56	4.72	78		7	33
	3	S	13.60	18.36	5.90	98		0	28
		D	13.50	18.48	5.75	95		2	19
	1	S	14.60	19.46	5.67	97		1	16
		D	14.50	19.66	5.66	97		0	
19. viii	24	S	11.60	0.08	5.42	70		0-2	704
	26	S	11.30	0.10	5.50	71		0-2	54
	25	S	10.30	0.04	5.55	70		0-8	28
17. ix	4	S	15.30	19.10	5.64	97		3	1
		D	15.70	19.14	5.67	98		1	1
	1	S	15.40	19.40	5.80	100		1-0	1
		D	15.40	19.58	5.80	100		1-0	1
	2	S	15.00	18.65	5.81	99		0	1
		D	14.40	18.71	4.84	82		4	4
	3	S	15.20	18.56	5.70	97		1-2	28
		D	14.80	18.66	5.60	95		0-2	0
	5	S	16.80	17.94	5.55	97		0-0	0
		D	16.40	18.01	5.40	93		1-0	1
	6	S	15.70	18.96	5.52	95		2-0	1
		D	15.70	19.00	5.58	96		0-0	1
	7	S	16.00	18.07	5.43	93		1-1	2
		D	16.00	18.06	5.32	91		1-1	2
18. ix	8	S	16.00	17.24	5.30	90		2	5
		D	16.20	17.37	5.24	90		1	4
	9	S	16.00	16.81	5.33	90		0-0	2
		D	16.10	16.84	5.27	89		0-0	5
	10	S	15.80	15.85	5.38	90		3	28
		D	15.90	16.88	5.04	85		2	7

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1946										
18. ix	11	S	15.70	13.96	5.35	87		0-5	42	
		D	15.80	15.88	5.06	85		2-4	18	
	12	S	15.60	12.08	5.50	88		2	89	
		D	15.80	12.20	5.53	89		1	89	
	13	S	15.60	10.34	5.58	87		0-3	110	
		D	15.40	10.26	5.34	83		1-3	105	
	14	S	15.50	8.62	5.72	88		0	165	
		D	15.40	8.99	5.53	85		1	155	
	15	S	15.60	6.34	5.74	86		0-4	190	
		D	16.70	6.42	5.55	85		0-7	175	
	16	S	15.70	5.03	5.84	86		0-3	262	
		D	15.20	5.13	5.85	86		6-3	262	
	19. ix	21	S	17.70	0.18	6.19	90		1-3	318
			D	16.80	0.08	6.14	88		0-10	318
20		S	17.20	0.07	6.59	95		0-7	318	
		D	17.40	0.02	6.51	94		1-6	43	
18		S	17.10	0.05	5.72	82		0-3	1320	
18a		S	16.70	0.04	6.47	85		0-7	2640	
17		S	16.00	0.36	6.23	88		1-0	880	
		D	17.50	0.38	6.10	87		1-2	660	
19		S	16.00	0.08	6.37	90		0-2	378	
		D	16.80	0.06	6.25	89		0-8	330	
22		S	17.70	0.05	6.52	95		0-4	26	
23		S	16.60	0.07	6.78	97		0-10	58	
24		S	19.80	0.09	7.00	106		0-6	1320	
26		S	17.00	0.14	7.25	104		2-7	23	
25	S	16.70	0.05	7.10	101		1-3	15		
17. x	4	S	17.20	19.23	5.30	94		4	9	
		D	17.20	19.32	5.03	89		2	9	
	1	S	15.60	19.58	5.38	93		4-2	9	
		D	16.70	19.63	5.40	96		5-4	9	
	2	S	17.40	18.92	5.36	95		4	6	
		D	15.90	18.97	4.95	86		5-6	4	
	3	S	17.40	18.63	5.01	88		5-6	50	
		D	17.10	18.82	5.04	89		5-5	11	
	5	S	16.90	18.53	4.88	86		1-9	14	
		D	17.00	18.35	4.81	84		4-4	11	

Location: **HAWKESBURY RIVER**

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1946</b>									
<b>17. x</b>	6	S	17.90	18.93	5.02	90		2-6	11
		D	17.60	19.08	5.02	90		1-7	9
	7	S	18.00	18.48	4.98	89		1-6	14
		D	18.20	18.49	4.97	89		1-7	14
	8	S	18.20	17.93	4.84	86		1	18
		D	18.20	17.94	4.81	86		1	14
	9	S	17.40	17.39	5.10	89		0-6	7
		D	18.10	17.45	4.90	87		0-7	12
	10	S	18.10	16.87	4.86	85		1	24
		D	18.30	17.42	4.70	83		2	17
	11	S	18.40	15.15	4.85	84		0-7	54
		D	18.50	16.51	5.65	82		2-3	33
	12	S	18.60	12.99	5.07	86		1	87
		D	18.40	13.17	4.95	84		7	68
	13	S	18.50	11.44	5.03	84		0-5	97
		D	18.40	12.44	4.83	81		1-0	87
	14	S	18.70	9.61	5.24	86		0	119
		D	18.50	10.08	6.08	83		0	123
	15	S	18.80	7.36	5.45	87		0-0	130
		D	18.60	7.60	5.19	83		0-1	123
	16	S	18.50	6.78	5.35	85		0-1	130
		D	18.50	6.78	5.30	84		0-3	123
<b>23. x</b>	21	S	17.10	0.11	6.00	87		0-10	12
		D	17.80	1.08	6.10	90		1-13	12
	20	S	17.50	0.10	6.40	93		0-12	12
	18	S	17.30	0.05	5.32	77		0-11	233
	18 <sub>a</sub>	S	17.60	0.05	5.76	84		0-11	245
	17	S	19.30	1.01	5.80	88		0-3	245
		D	19.20	1.15	5.78	87		0-6	163
	19	S	18.80	1.21	6.10	92		0-8	140
		D	19.40	0.19	6.10	92		1-7	130
	22	S	22.30	0.04	6.65	105		0-11	18
	23	S	20.30	0.06	6.12	93		1-11	9
	24	S	19.20	0.09	7.50	112		0-21	140
	26	S	18.60	0.16	6.40	95		1-9	9
	25	S	15.00	0.03	6.90	95		2-6	29

Location: **HAWKESBURY RIVER**

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946 9. xi	4	S	19.80	19.26	4.74	88		1-10	50
		D	19.00	19.61	4.90	90		3-5	30
	1	S	19.50	19.37	5.00	93		3-8	60
		D	18.50	19.48	4.90	89		4-5	80
	2	S	19.00	18.94	5.10	93		4-2	93
		D	17.60	19.07	3.23	58		0-12	70
	3	S	20.25	17.28	4.49	82		9-7	0
		D	20.00	18.89	4.55	84		0-9	38
	5	S	23.10	17.42	5.23	100		8-1	38
		D	20.10	18.78	4.49	83		0-14	80
	6	S	26.50	18.77	4.15	86		4-1	50
		D	21.08	18.60	4.66	87		3	46
	7	S	25.10	18.68	4.79	96		4	55
		D	20.65	18.39	4.34	81		2-3	20
8. xi	S	20.20	18.76	4.55	85		3-4	21	
	D	20.75	17.85	4.43	82		1-7	23	
9	S	20.70	18.04	4.29	80		2-4	20	
	D	20.65	18.19	4.28	80		2-2	20	
10	S	22.10	18.30	4.49	86		2-4	15	
	D	21.50	16.66	4.10	76		1-0	12	
11	S	20.80	17.58	4.97	92		1-2	14	
	D	21.80	13.24	4.49	81		1-4	2	
12	S	21.70	13.40	4.35	78		0-3	2	
	D	21.80	13.50	4.29	77		1-4	2	
13	S	21.50	13.88	4.23	76		2-3	3	
	D	22.20	3.47	4.55	74		2-0	0	
16	S	21.85	5.47	4.55	75		0-0	0	
	D	21.95	6.59	4.73	79		1-8	0	
15	S	21.80	13.07	4.73	85		1-7	3	
	D	21.80	9.19	4.72	85		2-9	0	
14	S	21.95	9.12	4.73	82		0-6	0	
	D	22.95	0.05	4.34	69		0-24	168	
21. xi	S	21.00	0.07	4.35	67		0-30	119	
	D	21.50	0.10	5.35	84		28-11	75	
20	S	21.30	0.07	4.15	65		15-24	62	
	D	21.05	0.03	4.72	73		1-38	1	
18	S	21.60	0.92	4.73	74		0-26	0	
	D	22.30	1.18	5.30	85		1-5	18	
17	S	22.00	1.26	5.35	85		2-4	15	
	D								

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946 21. xi	19	S	21.95	0.20	6.10	96		2-11	182
		D	22.00	0.19	5.92	93		0-9	190
	22	S	23.30	0.03	4.95	79		0-14	117
	23	S	22.80	0.04	5.42	86		0-9	153
	24	S	20.80	0.03	4.04	62		10-16	89
	26	S	22.50	0.05	5.15	82		1-13	40
	25	S	21.95	0.03	5.97	94		1-5	260
10. xii	16	S	23.20	7.27	4.70	81		0-6	165
		D	23.20	7.30	4.64	80		0-7	175
	15	S	22.80	8.47	4.53	79		0-7	165
		D	23.00	9.51	4.47	78		0-32	175
	14	S	23.20	10.97	4.43	80		0-7	155
		D	23.00	11.28	4.23	76		0-6	100
	13	S	22.50	13.86	4.17	77		0-9	149
		D	22.70	14.87	4.20	78		4-5	130
	12	S	23.10	16.79	4.25	81		1-5	87
		D	22.30	16.94	4.00	75		5-2	64
	11	S	22.60	17.90	4.31	82		5-4	43
		D	22.20	18.05	4.07	78		5-4	45
	10	S	22.20	18.11	4.14	79		1-8	45
		D	22.10	18.16	4.19	80		3-8	37
	9	S	23.00	17.82	4.48	86		1	15
		D	22.60	17.85	4.53	87		3	26
	8	S	22.10	18.35	4.32	83		6	28
		D	21.80	18.38	4.10	78		7	45
7	S	22.40	18.58	4.43	85		3	15	
	D	22.40	18.53	4.47	86		3	13	
6	S	21.90	18.53	4.40	84		5	19	
	D	21.80	18.62	4.31	82		6	27	
19. xii	25	S	21.00	0.06	5.87	91		0-0	28
	26	S	22.80	0.07	4.35	70		0-17	33
	24	S	23.00	0.05	4.67	75		0-11	103
	22	S	27.00	0.04	5.75	98		0-8	53
	23	S	25.20	0.06	5.08	84		0-3	31
	21	S	27.00	0.05	5.58	96		0-6	19
		D	27.00	0.05	5.37	92		0-7	22

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1946</b>									
19. xii	20	S	26.50	0.06	5.78	98		0-3	22
		D	26.50	0.05	5.48	92		0-5	15
	18	S	27.00	0.04	4.60	78		0-3	13
		S	23.80	0.03	4.62	75		0-7	7
	17	S	26.00	0.10	5.43	91		0-6	19
		D	26.04	1.07	5.23	89		0-6	201
	19	S	27.00	0.23	5.60	96		0-7	25
		D	27.00	0.21	5.58	95		0-8	19
<b>1947</b>									
17. i	25	S	21.10	0.14	5.55	86		0-10	23
		S	22.90	0.10	4.24	68,		0-10	33
	24	S	22.50	0.10	4.90	78		0-8	25
		S	23.60	0.06	5.10	82		0-10	33
	22	S	23.20	0.05	2.35	40		0-4	20
		S	24.40	0.07	4.93	81		0-12	17
	20	D	26.30	0.06	4.87	82		0-8	12
		S	25.50	0.07	4.80	80		0-8	14
	18	D	25.30	0.06	4.55	74		0-8	10
		S	24.10	0.11	4.58	74		0-5	149
	18a	S	22.60	0.04	4.98	79		0-5	195
		S	24.60	1.35	5.22	87		0-0	170
	17	D	25.40	1.49	5.10	86		0-0	150
		S	24.80	0.03	5.28	87		0-5	20
	19	D	25.60	0.29	5.31	89		0-6	12
		S	21.00	19.62	4.90	93		0-7	10
28. i	1	D	20.70	19.63	4.93	93		0-8	12
		S	26.00	19.38	4.42	91		0	10
	2	D	20.85	19.18	0.24	45		19	61
		S	26.00	19.29	4.12	85		1-19	12
	3	D	23.80	19.30	1.96	39		7-12	10
		S	26.20	19.28	3.79	79		0-7	10
	5	D	26.05	19.21	3.80	79		0-7	17
		S	26.40	19.22	3.52	73		0-6	10
	7	D	26.50	19.23	3.65	76		0-5	20
		S	26.10	19.23	4.16	86		0-7	17
6	S	26.10	19.23	4.16	86		0-7	17	
	D	24.90	19.37	4.13	84		0-3		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947 28.1	8	S	26.70	18.88	3.92	81		0	
		D	26.50	18.84	3.65	76	0		
	9	S	27.40	18.69	3.89	82	0-3	12	
		D	26.70	18.68	3.10	64	0-22	45	
	10	S	27.40	18.30	3.27	68	0	33	
		D	26.80	18.57	2.81	58	0	25	
	11	S	27.50	17.32	3.68	76	0-5	45	
		D	27.30	17.24	3.55	73	0-7	56	
	12	S	27.50	15.03	4.38	88	0	98	
		D	26.95	15.94	3.76	76	0	103	
	13	S	27.60	13.34	4.00	79	0-13	132	
		D	27.40	13.35	3.98	79	0-5	158	
	14	S	27.80	11.29	4.20	82	0	149	
		D	27.40	11.79	3.70	72	0	150	
	16	S	28.00	8.77	4.17	79	0-1	149	
		D	27.50	8.53	4.62	87	0-0	158	
	15	S	27.80	8.76	4.18	79	0-1	158	
		D	27.70	8.88	3.95	75	0-1	158	
	4	S	23.60	19.49	4.37	87	0	12	
		D	22.95	19.45	4.37	86	0	14	
	11.11	18a	S	22.10	0.04	4.87	77	0-7	170
		18	S	23.10	0.15	4.29	69	1-2	113
		17	S	26.50	1.71	4.81	83	1-0	170
			D	25.40	2.34	4.65	79	1-0	170
19		S	26.10	0.54	4.78	81	1-0	20	
		D	26.60	0.49	4.78	81	1-0	23	
20		S	24.80	0.10	5.67	93	0-3	12	
		D	25.50	0.24	5.26	88	0-3	17	
21		S	23.80	0.09	4.59	74	0-3	14	
		D	24.10	0.09	4.37	71	0-3	14	
22		S	24.70	0.04	4.15	68	0-7	31	
23		S	25.00	0.05	4.83	80	0-1	12	
24		S	23.10	0.10	4.47	72	0-0	335	
26		S	20.10	0.08	1.93	29	0-9	69	
25	S	21.40	0.04	5.45	95	0-9	25		
25.11 16	S	23.50	0.88	3.71	60	0-2	277		
	D	23.10	0.17	3.90	63	1-6	358		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947 25.11	15	S	23.50	0.39	3.62	57		1-7	314	
		D	23.10	0.17	3.49	56		1-15	358	
	14	S	23.60	0.67	3.83	64		0-0	210	
		D		0.80	3.52			0-0	227	
	13	S	23.70	2.37	3.92	65		1-0	170	
		D	24.10	4.69	3.52	60		1-0	180	
	12	S	24.40	5.37	3.95	68		0-1	180	
		D	24.30	8.10	3.85	69		0-12	156	
	11	S	24.80	8.57	4.44	80		0-6	150	
		D	24.50	10.67	3.96	72		7-3	41	
	9	S	24.70	11.50	4.34	80		1-4	102	
		D	25.60	11.49	4.05	76		1-3	132	
	10	S	24.90	12.38	4.26	80		0-0	117	
		D	22.00	12.99	3.69	66		10-0	132	
	8	S	24.50	13.20	4.39	82		0-0	91	
		D	24.60	14.02	2.72	51		0-1	88	
	7	S	24.60	14.94	4.36	84		2-3	52	
		D	24.90	15.03	4.05	78		0-6	38	
	6	S	25.00	14.76	4.52	79		0-6	60	
		D	23.50	15.97	3.28	62		0-6	49	
	20.111	25	S	21.50	0.04	5.64	104		0-17	157
		26	S	11.25	0.06	4.00	51		0-9	150
		24	S	23.40	0.08	4.01	64		0-5	24
		23	S	24.50	0.12	4.85	80		0-5	102
22		S	25.00	0.04	5.20	86		0-15	102	
21		S	24.60	0.04	4.71	77		0-7	75	
		D	23.80	0.05	4.70	76		0-1	78	
20		S	24.50	0.04	5.07	83		0-6	102	
		D	24.60	0.03	4.98	82		0-6	124	
18a		S	20.70	0.03	4.62	71		0-3	359	
18		S	21.20	0.03	4.37	68		0-8	277	
17		S	24.20	0.04	4.37	71		0-12	210	
		D	23.50	0.06	4.19	67		0-14	193	
19		S	23.80	0.05	4.20	68		0-15	170	
		D	23.10	0.04	4.25	68		0-12	157	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
15. iv	6	S	19.70	16.08	5.04	91		0-7	43
		D	20.20	18.00	4.68	87		0-4	28
	5	S	18.50	16.44	4.84	85		1-5	28
		D	18.10	16.45	4.82	84		0-7	28
	7	S	19.30	15.55	4.67	83		0-8	17
		D	19.50	16.24	4.60	82		0-12	28
	8	S	20.50	14.37	4.78	85		0-5	82
		D	20.50	15.70	4.54	82		1-9	67
	10	S	21.00	12.99	4.73	84		1-4	82
		D	20.80	13.73	4.59	82		1-6	82
	11	S	21.05	10.22	4.92	85		0-5	157
		D	21.10	13.43	4.54	81		0-6	112
	4	S	20.40	17.82	5.04	93		1-5	25
		D	20.10	19.03	4.91	91		1-7	17
	1	S	21.50	19.23	5.04	96		0-6	17
		D	18.50	19.34	5.04	92		1-12	17
	2	S	23.90	18.43	4.33	85		0-7	5
		D	20.70	18.87	3.97	74		5-5	43
	3	S	22.70	18.64	2.38	46		7-7	12
		D	22.90	19.15	0.29	57		37-0	7
	9	S	20.25	13.92	5.04	89		0-13	22
		D	20.10	14.30	4.59	81		0-3	82
16. iv	15	S	21.40	4.11	5.04	82		0-5	170
		S	21.00	5.95	5.17	88		0-3	157
	13	S	21.45	7.78	4.82	84		0-1	140
		S	21.50	10.14	4.78	83		0-7	157
17. iv	25	S	17.20	0.05	6.42	93		0-3	28
		S	17.20	0.07	4.10	59		0-19	117
	24	S	18.50	0.09	5.72	84		0-0	192
		S	19.20	0.03	5.55	83		0-0	120
	22	S	18.80	0.04	5.49	81		0-7	49
		S	19.25	0.04	5.75	86		0-6	28
	21	D	19.20	0.04	5.75	83		0-6	35
		S	18.60	0.05	6.00	104		0-7	32
	20	D	19.60	0.04	5.75	87		0-7	82
		S	18.60	0.03	5.56	96		0-8	442
	18a	S	19.30	0.04	6.27	94		0-7	492
		S	20.60	0.06	6.24	96		0-13	205
	17	D	20.70	0.06	6.00	92		0-13	117
		S	20.80	0.05	6.35	98		0-6	87
	19	D	21.50	0.04	6.24	97		0-7	102

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
13. v	25	S	14.80	0.05	6.85	94		0-6	200
	26	S	14.60	0.08	4.13	57		0-19	190
	24	S	15.25	0.08	5.40	75		0-7	161
	23	S	17.10	0.30	5.77	83		0-7	212
	22	S	17.40	0.03	5.78	84		0-10	190
	21	S	17.60	0.05	5.78	84		0-8	113
		D	17.50	0.03	5.80	84		0-10	102
	20	S	18.20	0.05	6.13	90		0-10	125
		D	19.10	0.04	6.80	100		0-8	119
	18a	S	18.80	0.05	6.20	92		0-7	333
	18	S	17.90	0.05	5.80	85		0-6	310
	17	S	19.10	0.06	6.92	103		0-6	177
	26. v	19	S	18.80	0.05	6.88	102		0-6
		D	18.60	0.05	6.90	102		0-7	51
1		S	18.90	19.45	4.95	91		3-3	38
		D	17.80	19.58	4.27	77		10-4	85
8		S	18.00	15.66	4.95	86		1	70
		D	18.10	15.83	4.81	84		1	62
9		S	17.90	14.25	4.67	80		1-4	47
		D	12.70	14.15	4.56	70		1-4	53
10		S	18.00	13.95	4.90	83		3	77
		D	18.10	14.18	4.83	82		3	65
11		S	18.20	11.32	4.36	63		0-3	77
		D	18.30	11.84	4.85	81		0-6	85
12		S	18.20	9.18	5.08	81		1	77
	D	18.10	9.13	4.78	76		1	102	
13	S	18.30	7.14	5.10	81		0-1	113	
	D	18.30	7.17	4.95	78		0-1	125	
14	S	18.10	3.88	5.45	83		0	125	
	D	18.20	3.83	5.33	82		0	125	
15	S	18.10	2.20	5.65	103		0-0	140	
	D	18.20	2.05	5.04	92		0-3	125	
16	S	18.00	1.54	5.67	84		0-1	170	
	D	16.00	1.55	5.08	73		1-16	152	
7	S	16.60	16.06	5.00	85		0-7	137	
	D	16.80	17.32	4.90	85		1-2	37	
6	S	18.00	16.66	4.92	86		1-6	50	
	D	17.50	16.96	4.86	85		1-7	50	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947 26. v	5	S	17.30	16.74	5.17	90		0-5	37	
		D	17.20	16.76	5.09	87		1-4	35	
	2	S	18.60	18.07	4.96	89		0	13	
		D	18.80	18.37	4.45	80		1	23	
	3	S	18.00	17.26	4.78	84		5-10	54	
		D	19.80	18.48	3.04	56		10-9	51	
	4	S	17.50	18.83	5.11	91		3	26	
		D	17.60	19.05	4.96	89		3	34	
	17. vi	1	S	16.10	18.90	5.67	99		0-3	23
			D	17.40	19.48	5.21	93		1-2	45
		2	S	16.80	18.29	5.40	94		1	10
			D	16.80	18.27	5.00	87		10	13
		3	S	16.50	19.68	5.00	88		12-10	119
			D	16.90	18.27	4.62	81		6-2	23
4		S	15.50	18.12	5.58	95		3	25	
		D	16.00	18.66	5.54	96		3	16	
18. vi	16	S	14.20	4.55	6.11	87		0-0	139	
		D	14.40	2.63	6.37	85		0-5	180	
	15	S	14.25	4.70	5.98	85		0-0	180	
		D	14.30	4.61	6.02	86		0-0	152	
	14	S	14.40	5.71	5.90	86		0	140	
		D	14.30	6.84	5.84	86		0	140	
	13	S	14.60	8.12	5.44	81		1-2	180	
		D	14.50	8.29	5.44	81		0-0	180	
	12	S	14.50	9.71	5.23	80		0	140	
		D	14.30	10.16	5.59	85		1	156	
	11	S	14.25	11.58	5.73	86		0-3	107	
		D	14.20	11.96	5.58	91		1-5	77	
10	S	14.50	13.36	5.64	89		0	68		
	D	14.00	16.85	5.58	91		0	46		
20. vi	9	S	13.40	15.08	5.58	88		0-3	45	
		D	13.50	15.14	5.58	89		1-2	40	
	8	S	13.50	15.97	5.62	90		0	26	
		D	13.60	16.12	5.46	91		1	26	
7	S	13.80	16.89	5.65	92		0-5	17		
	D	14.00	17.05	5.33	87		1-4	23		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947 20. vi	6	S	14.50	18.31	5.58	94		0-5	1
		D	15.00	18.44	5.36	91		3-3	28
	5	S	13.70	17.03	5.65	92		1-0	33
		D	14.00	17.14	5.50	90		1-4	30
	25	S	11.20	0.04	7.58	93		0-10	46
	26	S	9.10	0.05	6.44	93		0-6	230
	24	S	9.80	0.10	6.66	82		0-7	520
	23	S	13.50	0.09	6.74	91		0-7	280
	22	S	11.30	0.04	7.35	94		0-10	180
	21	S	11.80	0.06	7.40	96		0-7	125
		D	10.80	0.05	7.35	93		0-7	102
	20	S	10.00	0.05	7.37	92		0-10	107
		D	10.50	0.07	7.39	93		0-8	150
	18a	S	13.50	0.04	6.90	93		0-8	780
	18	S	11.40	0.05	6.68	111		0-13	780
		D	14.50	0.10	7.54	103		0-10	230
	17	S	13.80	0.10	7.25	98		0-8	220
		D	13.60	0.06	7.35	99		0-6	85
	19	S	13.50	0.05	7.06	95		0-7	82
		D							
14. vii	1	S	15.50	19.38	5.63	96		0-1	17
		D	17.00	19.66	5.10	91		3-2	23
	2	S	14.00	18.55	5.70	95		0	3
		D	14.50	19.56	5.69	97		0	0
	3	S	14.10	18.38	5.77	96		0-1	8
		D	14.40	18.56	5.05	85		3-0	17
	4	S	14.20	18.66	5.82	97		0	15
		D	14.60	18.94	5.70	96		0	17
15. vii	16	S	12.40	4.91	6.80	94		0-0	112
		D	12.50	3.65	6.40	87		0-0	116
	15	S	13.50	5.08	6.54	93		0-1	116
		D	12.60	5.08	6.67	93		0-0	120
	14	S	12.80	6.94	6.50	93		0	112
		D	12.60	7.47	6.40	91		0	120
	13	S	12.90	9.22	6.28	92		0-3	112
		D	12.80	9.29	6.37	93		0-3	102
	12	S	13.00	9.86	6.47	96		0	90
		D	12.80	11.10	6.08	91		0	77

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1947</b>									
15. vii	11	S	13.10	12.47	6.24	95		0-0	56
		D	12.80	13.90	5.89	91		0-0	45
	10	S	12.90	14.34	6.10	95		0	34
		D	13.00	15.00	6.09	96		0	23
16. vii	9	S	12.50	15.43	6.14	96		0-6	12
		D	12.70	15.56	5.90	93		0-10	5
	8	S	12.50	16.51	5.90	94		0	5
		D	12.80	16.72	5.84	94		0	5
17. vii	7	S	12.40	17.38	5.87	94		0-6	3
		D	12.40	17.51	5.85	94		0-6	3
	6	S	12.80	17.99	5.80	94		0-10	8
		D	13.30	18.37	5.75	95		0-1	3
	5	S	12.20	17.38	5.90	94		0-3	3
		D	12.70	17.71	5.80	94		1-5	0
18. vii	25	S	8.30	0.05	7.60	91		0-5	185
		S	6.50	0.09	7.17	83		0-5	95
		S	8.40	0.09	7.25	87		0-5	540
		S	10.50	0.05	7.54	95		0-1	137
		S	9.80	0.04	7.52	93		0-6	66
		S	11.00	0.06	7.55	96		0-3	36
		D	9.00	0.05	7.35	80		0-0	23
		S	10.50	0.04	7.30	92		0-7	23
		D	10.50	0.05	6.65	84		0-13	26
		S	11.00	0.04	6.90	88		0-3	590
		S	10.50	0.03	7.86	99		0-7	590
		S	12.50	0.14	7.40	98		0-5	212
	17	D	12.60	0.14	7.35	97		0-1	202
		S	12.50	0.05	7.61	101		0-1	45
		D		0.06	7.70			0-1	36
11. viii	1	S	16.20	19.62	5.85	103		5-5	5
		D	16.05	19.64	5.61	98		5-9	34
	3	S	13.80	18.43	6.14	102		2-10	34
		D	12.60	18.60	5.75	93		7-7	0
	2	S	13.40	18.58	6.08	100		3	0
		D	12.90	18.64	5.82	95		5	0
	16	S	13.40	3.01	7.14	115		5-5	51
		D	13.20	2.91	7.12	98		5-1	54

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1947</b>									
11. viii	15	S	12.90	4.27	6.94	95		9-1	77
		D	12.80	4.41	6.80	94		3-7	90
	14	S	13.20	5.89	6.95	99		3	77
		D	12.90	6.91	6.87	98		3	53
	13	S	13.00	8.73	6.76	99		3-14	54
		D	12.80	10.62	6.47	96		4-6	26
	12	S	13.20	10.72	6.58	99		3	23
		D	13.00	11.14	6.50	97		3	21
12. viii	11	S	13.30	13.64	6.20	96		4-4	5
		D	13.20	14.74	5.98	93		5-6	3
	10	S	13.70	16.36	6.89	95		5	0
		D	13.60	16.55	6.98	97		6	0
13. viii	9	S	13.70	16.11	6.08	97		3-4	0
		D	13.80	16.11	6.90	97		6-0	3
	8	S	13.50	16.82	6.90	97		6	0
		D	13.70	17.46	5.90	97		8	3
	7	S	14.00	17.90	5.90	98		6-9	4
		D	13.80	17.92	5.93	98		6-5	0
	6	S	14.00	18.37	5.86	98		7-1	0
		D	14.30	18.68	5.90	98		11-1	0
	5	S	13.50	18.12	5.78	93		7-9	0
		D	13.80	18.17	5.77	92		12-1	0
14. viii	4	S	13.40	18.76	5.68	94		16	0
		D	13.60	19.12	5.66	94		16	3
15. viii	25	S	11.00	0.09	7.02	90		2-7	137
		S	9.30	0.10	6.75	83		1-10	112
	24	S	11.00	0.11	7.60	97		2-13	640
		S	12.50	0.03	7.30	96		2-11	156
	23	S	12.50	0.05	7.20	96		5-7	70
		S	13.60	0.04	7.20	97		4-7	8
	21	D	13.10	0.05	7.20	96		2-8	8
		S	12.50	0.04	7.30	96		2-11	12
	20	D	14.10	0.04	6.24	85		6-9	81
		S	14.30	0.04	6.65	91		3-7	1120
	18	S	14.10	0.04	7.24	99		0-9	640
		S	15.40	0.10	7.48	101		0-9	320
	17	D	13.00	0.12	7.55	101		0-10	252
		S	13.60	0.05	7.48	101		3-7	8
	19	D	12.50	0.05	6.48	101		3-2	5

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947	4. ix	25	S	11.80	0.05	7.50	98	9-0	47	
		26	S	11.40	0.14	5.81	74	4-13	39	
		24	S	13.20	0.07	7.40	99	6-6	610	
		23	S	14.10	0.04	7.50	102	0-6	105	
		22	S	15.20	0.04	7.45	103	6-3	23	
		21	S	15.50	0.04	6.84	96	2-4	7	
			D	13.60	0.04	6.67	90	3-10	8	
		20	S	16.00	0.05	7.42	105	5-4	13	
			D	14.60	0.05	4.96	68	5-4	14	
		18	S	14.40	0.04	6.65	91	0-2	975	
		18a	S	18.50	0.04	5.89	87	2-6	895	
		17	S	14.20	0.23	7.10	97	4-5	270	
			D	16.00	0.27	7.00	100	7-1	238	
		19	S	14.60	0.05	7.90	109	2-8	8	
			D	13.80	0.05	7.39	100	2-5	7	
		14. ix	1	S	16.00	19.63	6.07	106	10-2	0
				D	15.80	19.49	5.87	102	7-3	0
			3	S	17.40	18.56	6.05	107	11-3	0
				D	14.20	18.68	5.87	98	5-8	0
		2	S	16.40	18.75	5.93	103	8	0	
D	13.80		18.75	5.24	87	13	0			
15. ix	16	S	16.00	4.45	6.27	92	1-7			
		D	16.00	4.56	4.72	70	0-10	229		
	15	S	15.75	6.12	6.25	93	4-6	133		
		D		6.19	5.23		2-8	144		
	14	S	16.10	8.38	6.25	96	3	63		
		D	15.80	8.99	6.13	95	2	54		
	13	S	15.70	10.95	5.83	92	4-10	38		
		D	15.60	11.39	5.93	94	5	39		
	12	S	15.70	12.63	5.93	95	5	13		
		D	15.82	12.91	5.17	84	4	7		
	11	S	17.00	14.90	5.56	94	6-3	0		
		D	16.80	15.29	5.73	97	6-5	0		
	10	S	16.50	16.29	5.63	96	2	0		
		D	16.40	16.58	5.70	83	6	32		
	9	S	17.20	16.47	5.33	92	0-13	0		
		D	17.20	16.49	5.58	96	3-7	0		
8	S	16.80	16.99	5.04	87	3	0			
	D	16.80	17.18	5.48	94	5	0			

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947 15. ix	7	S	16.90	17.58	5.29	92		1-12	3	
		D	17.80	17.67	5.60	99		3-10	55	
	5	S	17.40	17.87	4.78	94		6-8	0	
		D	17.55	17.88	5.40	95		7-0	0	
	6	S	16.50	17.68	5.33	92		6-2	0	
		D	16.60	18.27	5.45	95		6-0	0	
	4	S	16.10	19.25	5.67	99		7	0	
		D	15.20	19.33	5.29	91		7	0	
	17. x	25	S	16.40	0.07	6.75	98		0-9	66
		26	S	17.50	0.12	6.29	91		0-9	40
		24	S	18.20	0.10	6.35	93		0-9	762
		23	S	19.90	0.03	6.55	99		0-12	22
		22	S	20.00	0.16	5.70	87		0-7	12
		21	S	21.20	0.04	6.24	95		9-0	21
D			20.30	0.04	6.06	93		5-1	20	
20		S	20.60	0.03	6.64	102		10-2	0	
		D	19.20	0.06	6.30	94		6-1	6	
18		S	21.10	0.05	5.50	83		9-3	776	
18a		S	24.40	0.03	5.95	97		7-2	897	
17	S	20.10	0.36	6.17	94		6-0	44		
	D	22.40	0.36	6.25	99		5-3	275		
19	S	21.30	0.06	6.54	102		6-0	25		
	D	19.90	0.05	6.64	100		4-4	50		
21. x	1	S	17.40	19.64	5.23	94		9-7	16	
		D	16.00	19.61	4.84	85		12-9	58	
	2	S	19.80	18.89	5.53	103		4	2	
		D	15.80	18.83	4.30	74		11	12	
3	S	20.40	18.84	5.44	102		5-11	41		
	D	16.90	18.84	4.62	81		8-12	18		
4	S	19.70	19.10	5.51	102		5	53		
	D	18.80	19.26	5.38	98		3	19		
22. x	15	S	20.00	6.33	5.65	91		5-7	124	
		D	20.10	6.49	5.50	89		2-6	107	
	16	S	20.50	4.44	5.57	89		0-12	107	
		D	20.30	5.02	5.48	88		0-8	117	
14	S	20.25	7.45	5.57	92		0	84		
	D	20.00	9.45	5.40	90		0	99		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947										
22. x	13	S	20.50	10.22	5.55	95		0	199	
		D	20.05	12.38	5.24	91		4-7	33	
	12	S	20.50	11.62	5.64	98		0	65	
		D	20.20	12.48	5.53	96		3	34	
	11	S	20.80	14.95	5.57	101		0-12	0	
		D	20.20	16.56	4.96	90		6-0	0	
	10	S	20.70	15.89	5.40	98		0	0	
		D	20.40	17.15	5.20	95		5	0	
	23. x	9	S	20.80	16.48	5.28	97		0-6	0
			D	21.00	16.57	5.35	102		1-3	4
8		S	21.05	17.30	5.33	99		0	0	
		D	20.10	18.23	5.12	95		1	0	
5		S	20.30	20.33	5.30	100		3-6	0	
		D	20.05	18.74	5.25	98		10-0	0	
6		S	19.50	18.93	5.36	99		3-9	0	
		D	19.30	19.01	5.20	96		7-0	0	
7		S	20.90	18.55	5.35	100		3-3	0	
		D	20.40	18.54	5.25	98		7-1	0	
12. xi	1	S	18.10	19.56	5.97	109		7-4	5	
		D	18.00	19.51	5.92	107		6-0	0	
	2	S	20.60	19.02	5.42	100		10	0	
		D	17.20	18.98	4.01	71		32	4	
	3	S	21.90	18.84	5.07	97		13-2	0	
		D	18.50	18.93	3.54	64		12-0	0	
	4	S	19.50	18.92	5.25	97		6	0	
		D	19.20	19.07	5.35	99		10	0	
13. xi	16	S	21.60	4.76				3-3	180	
		D	21.80	4.64	5.25	86		5-0	202	
	15	S	21.50	6.62	5.40	90		2-5	151	
		D	21.80	6.62	4.77	80		3-0	158	
	14	S	21.80	9.68	5.42	93		2	46	
		D	21.60	9.67	5.42	93		4	54	
	13	S	21.50	12.44	5.10	90		3-4	0	
		D	21.40	12.74	5.15	91		3-3	13	
	12	S	21.10	15.22	5.03	91		1	3	
		D	21.40	15.52	4.65	85		4	10	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947 13. xi	11	S	21.00	16.13	4.82	88		3-7	0
		D	21.05	17.04	3.65	68		7-0	7
14. xi	10	S	20.60	17.29	5.00	92		4	0
		D	20.80	17.40	6.18	115		7	1
	9	S	20.50	17.29	4.80	88		4-3	0
		D	20.40	17.36	4.70	87		4-0	0
	8	S	20.30	17.89	4.92	91		4	0
		D	20.40	18.01	4.97	93		6	3
	7	S	20.20	18.36	4.95	92		8-3	0
		D	20.10	18.35	4.82	89		10-0	4
	6	S	19.50	18.74	4.92	90		7-7	2
		D	19.40	18.79	5.02	92		9-0	4
	25	S	17.00	0.04	6.35	91		3-0	27
	26	S	17.20	0.08	5.42	78		5-0	0
	24	S	18.00	0.12	4.85	71		4-2	214
	23	S	19.20	0.06	5.42	81		3-0	61
22	S	21.60	0.04	4.61	72		3-1	24	
21	S	21.90	0.04	5.59	87		2-1	8	
	D	21.20	0.04	5.90	92		3-0	9	
20	S	21.60	0.04	5.96	93		3-2	4	
	D	21.40	0.04	6.25	97		3-0	8	
18	S	21.90	0.04	5.10	80		2-0	647	
18 <sub>a</sub>	S	24.40	0.03	5.80	95		2-0	690	
17	S	22.50	0.56	5.85	93		6-0	190	
	D	22.30	0.38	5.80	92		2-1	220	
19	S	22.30	0.04	6.20	98		6-0	2	
	D	22.30	0.05	6.15	97		2-1	8	
12. xi	25	S	18.60	0.05	4.98	74		7-10	218
		D	19.30	0.12	5.80	87		12-16	526
	24	S	19.90	0.06	4.16	63		0-14	45
	23	S	17.20	0.03	6.55	95		8-33	704
	22	S	17.10	0.03	5.55	80		11-0	549
	21	S	17.10	0.04	5.90	85		0-49	464
		D	16.90	0.04	5.15	74		0-41	486
	20	S	17.40	0.04	4.98	72		0-38	544
	18	S	18.00	0.03	4.98	73		1-0	597
	18 <sub>a</sub>	S	19.00	0.03	4.92	73		0-41	586

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1947</b>									
12. xii	17	S	18.40	0.04	5.44	80		3-0	307
		D	17.80	0.03	5.45	79		7	373
	19	S	18.00	0.04	5.50	80		7-0	414
		D	17.60	0.04	5.55	79		0-14	426
17. xii	4	S	19.80	6.27	4.67	75		7-12	194
		D	18.70	6.24	3.93	62		7-8	219
	1	S	19.70	8.40	4.76	78		9-13	237
		D	18.60	19.33	4.67	85		5-14	0
	2	S	21.60	7.49	5.88	99		7-13	158
		D	18.75	18.96	2.30	42		24-9	26
	3	S	22.10	5.64	5.90	98		40-16	641
		D	20.90	11.40	3.67	64		21-1	228
	5	S	22.00	1.80	4.30	69		13-2	300
		D	20.65	2.11	5.54	87			303
	7	S	21.50	2.31	4.47	71		22-1	244
		D	23.50	3.09	4.37	73		11-11	202
	6	S	19.80	1.53	3.98	61		13-9	258
		D	18.90	5.88	4.70	74		24-21	243
18. xii	8	S	19.50	0.98	2.96	45		4-15	268
		D	18.40	15.16	4.38	76		10-8	65
	9	S	19.50	0.38	5.54	84		10-28	219
		D	20.40	1.01	3.75	58		6-16	248
	10	S	19.20	0.10	3.75	56		5-46	225
		D	19.10	0.20	3.98	60		10-33	244
	11	S	19.00	0.05	4.06	61		15-33	299
		D	18.95	0.05	4.13	61		9-39	246
	12	S	19.50	0.04	4.47	67		10-30	336
		D	19.00	0.05	4.24	63		10-33	345
	13	S	19.20	0.04	4.65	70		10-17	306
		D	19.20	0.04	4.48	67		11-23	302
	14	S	19.60	0.05	4.65	70		7-23	335
		D	19.45	0.04	4.18	63		0-43	371
	15	S	19.80	0.04	4.60	70		10-31	346
		D	19.60	0.05	4.06	61		16-30	275
	16	S	19.65	0.04	4.58	69		9-29	329
		D	19.50	0.03	4.37	66		15-34	323

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
23.1	25	S	21.00	0.06	5.45	84		2-9	12
	26	S	23.20	0.09	3.89	62		3-14	2337
	24	S	22.50	0.05	3.78	60		4-2	2015
	23	S	23.80	0.03	5.87	95		6-4	2462
	22	S	24.60	0.04	5.00	82		7-5	2492
	21	S	24.10	0.03	4.88	79		5-0	1861
		D	24.20	0.04	4.77	78		7-13	2030
	20	S	25.20	0.03	4.97	83		6	2030
		D	25.00	0.02	4.37	72		10	2338
	18	S	25.20	0.04	4.77	79		2-20	2307
	18a	S	28.30	0.03	4.55	79		5-0	2385
	17	S	23.00	0.03	4.75	76		13-0	2369
		D	22.20	0.03	4.23	67		12-22	2462
	19	S	23.20	0.03	4.70	75		11-25	2615
		D	23.20	0.03	4.62	74		11-0	2231
	1	S	23.00	16.92	5.44	104		4-6	0
		D	22.30	19.05	5.47	106		2-14	0
	2	S	25.80	13.38	6.40	121		4	0
		D	20.10	18.82	0.65	12		43	338
	3	S	25.70	13.08	6.55	125		13-0	0
		D	20.80	18.30	0.46	86		19-2	392
	4	S	23.90	15.36	5.30	101		10	0
		D	21.80	18.30	4.95	94		9	723
	9	S	23.60	7.85	4.62	81		4-21	1462
		D	23.60	8.15	4.67	82		0-11	529
	8	S	23.10	9.06	5.02	88		11	526
		D	22.80	10.04	4.21	74		1	753
	7	S	24.20	11.45	4.80	89		7-22	418
	5	S	24.40	11.83	5.18	96		2-20	0
	6	S	22.80	12.02	4.58	83		12-5	440
		D	22.70	12.96	4.58	83		7-39	338
24.1	16	S	22.80	0.14	4.21	67		11-9	2384
		D	21.70	0.05	4.05	63		6-14	2354
	15	S	21.50	0.06	3.97	62		5-19	2278
		D	21.70	0.05	3.88	61		6-0	2384
	14	S	21.60	0.07	3.96	62		19	2462
		D	21.80	0.07	3.85	60		11	2708
	13	S	21.40	1.41	3.82	60		18-0	2080
		D	22.40	1.42	3.90	63		10-0	2800

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1948</b>									
24. 1	12	S	22.10	3.29	5.84	95		18	2077
		D	22.60	4.53	3.90	65		14	2800
	11	S	22.40	5.26	3.93	66		17-0	1391
		D	22.40	5.38	4.16	70		19-0	1394
	10	S	22.40	8.01	4.21	72		10	1206
		D	22.40	8.51	4.02	70		3	1708
<b>19. 11</b>									
1		S	22.20	17.24	5.08	109		9-2	10
		D	22.00	19.39	4.71	100		0-20	62
4		S	20.05	17.73	5.12	94		3-9	12
		D	19.70	18.12	4.30	78		11-4	37
2		S	26.50	16.74	5.20	105		7-7	4
		D	20.05	18.63	0.97	18		31-7	91
3		S	26.50	15.93	4.70	94		26-3	112
		D	20.30	18.63				35-3	35
5		S	25.50	14.30	5.00	97		10-5	15
		D	23.80	15.37	4.71	90		10-9	17
6		S	24.50	13.63	5.10	96		6-8	31
		D	22.65	16.34	4.81	91		10-7	25
<b>20. 11</b>									
20. 11	25	S	22.80	0.10	5.85	93		0-7	16
		S	24.60	0.08	4.37	72		23-0	252
	24	S	24.60	0.06	2.96	49		10-7	218
		S	24.50	0.05	4.35	71		11-10	408
	22	S	25.10	0.05	3.32	55		15-8	750
		S	25.10	0.04	3.60	60		7-18	480
	21	D	24.80	0.03	3.98	65		12-5	462
		S	25.10	0.03	3.78	63		14-9	708
	18	D	25.30	0.05	3.98	66		8-12	176
		S	24.80	0.04	3.98	65		10-18	943
	18a	S	25.20	0.04	4.18	69		11-9	852
		S	27.20	0.05	4.15	71		3-10	680
	17	D	26.60	0.04	4.34	74		8-10	689
		S	26.20	0.04	4.28	72		7-7	428
	19	D	26.00	0.04	4.15	70		8-8	500

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1948										
19. 111	25	S	19.25	0.10	6.02	90		0-5	96	
	26	S	19.00	0.09	3.90	58		0-12	147	
	24	S	20.00	0.07	3.58	54		0-10	518	
	23	S	22.30	0.05	4.10	65		6-9	570	
	22	S	22.65	0.04	3.64	58		0-12	605	
	21	S	23.40	0.03	5.36	86		3-6	447	
		D	22.50	0.02	5.23	83		7-4	560	
	20	S	22.85	0.04	5.14	82		0-15	606	
		D	22.60	0.04	5.57	89		4-12	3648	
	18	S	22.90	0.04	4.85	77		1-7	3502	
	18a	S	24.60	0.04	5.02	82		0-8	3525	
	17	S	23.00	0.05	4.21	67		8-11	73	
		D	23.50	0.05	4.00	64		9-4	942	
	19	S	23.00	0.04	4.42	71		13-5	436	
		D	23.30	0.04	4.45	71		8-10	540	
	22. 111	1	S	21.60	18.80	4.95	94		0-12	6
			D	21.70	19.02	4.98	95		10-1	9
		2	S	22.20	18.16	5.05	96		9	6
		D	20.80	18.71	1.02	19		34	229	
3		S	21.90	17.77	3.40	64		22-15	66	
		D	20.50	18.53				12-39	12	
4		S	21.70	17.61	4.86	92		13	15	
		D	21.60	18.45	4.79	91		56	21	
9		S	22.20	13.92	5.20	95		7-10	15	
		D	22.50	13.50	5.35	98		10-7	11	
8		S	22.00	14.73	4.60	84		13	60	
		D	21.90	14.84	4.61	85		10	72	
7	S	22.20	15.70	4.85	90		10-3	16		
	D	22.00	15.71	4.79	89		10-1	9		
6	S	21.90	15.80	4.83	89		11-5	18		
	D	21.90	16.42	4.65	87		8-0	18		
5	S	22.00	15.95	5.05	94		12-1	27		
23. 111	16	S	22.70	1.02	4.46	72		8-0	533	
		D	22.70	1.12	4.28	69		8-0	510	
	15	S	22.70	3.30	4.40	72		10-2	498	
		D	22.70	3.30	4.11	67		6-5	466	
	14	S	22.50	5.41	4.38	73		10	447	
		D	22.60	5.86	4.13	75		16	446	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
<b>1948</b>										
23. iii	13	S	22.40	8.09	4.35	75		10-1	344	
		D	22.30	8.81	4.34	75		15-0	337	
	12	S	22.20	9.69	4.83	84		9	282	
		D	22.10	11.29	4.60	81		11	286	
	11	S	22.20	13.26	4.75	86		8-5	140	
		D	21.90	13.21	4.23	76		10-2	192	
	10	S	22.00	14.34	4.75	87		7	86	
		D	22.10	14.37	4.70	86		9	45	
	16. iv	25	S	16.40	0.05	6.07	86		0-7	88
		26	S	15.90	0.10	4.08	57		2-4	61
24		S	16.70	0.08	5.10	73		2-11	499	
23		S	18.40	0.03	5.55	82		1-8	93	
22		S	17.80	0.03	3.85	56		4-13	239	
21		S	17.30	0.03	5.90	85		3-6	186	
		D	17.20	0.03	5.90	85		2-12	168	
20		S	17.80	0.04	5.39	79		3-6	171	
		D	17.20	0.02	6.05	87		4-4	182	
18		S	17.40	0.03	5.94	86		0-6	427	
18a		S	17.30	0.05	6.07	88		4-0	454	
17		S	20.40	0.05	5.06	77		2-16	474	
		D	20.50	0.05	5.06	78		1-12	495	
19		S	20.40	0.04	5.71	87		1-5	272	
		D	20.30	0.04	5.66	86		1-11	248	
20. iv		16	S	19.80	3.20	4.89	76		6-7	506
	D		19.95	2.87	4.50	70		11-4	614	
	15	S	19.80	4.50	4.88	77		6-8	494	
		D	19.90	5.06	4.67	74		7-5	504	
	14	S	19.80	6.96	4.72	77		9	347	
		D	19.75	7.28	4.63	75		5	401	
	13	S	20.10	9.54	4.66	78		6-9	275	
		D	19.90	9.68	4.75	80		8-10	255	
	12	S	19.90	10.94	4.85	82		7	227	
		D	19.50	12.18	4.71	81		7	196	
11	S	19.40	13.18	4.98	86		9-5	137		
	D	19.10	13.98	4.66	81		6-8	101		
10	S	19.40	15.85	4.72	87		8	59		
	D	19.60	14.88	3.66	65		5	62		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
21. iv	9	S	19.00	14.29	5.01	87		4-10	25
		D	19.00	14.86	5.02	88		4-15	38
	8	S	18.80	15.75	5.01	88		7	53
		D	18.60	15.70	5.00	88		7	47
	7	S	18.40	16.50	5.01	88		7-10	8
		D	18.40	16.62	4.90	86		6-11	6
	6	S	18.70	16.59	5.15	91		9-7	58
		D	18.50	16.89	5.04	89		8-4	34
	5	S	18.80	16.87	5.45	97		7-4	4
		D	18.80	16.87	5.32	95		4-10	16
	4	S	18.60	18.23	5.19	94		8	3
		D	18.75	18.93	5.19	95		11	7
	3	S	19.50	18.52	3.07	56		29-6	0
		D	19.70	18.71	3.76	70		16-11	44
	2	S	19.50	18.59	3.90	72		13	3
		D	19.20	18.72	3.51	64		11	18
	1	S	18.90	19.67	5.31	98		6-8	0
		D	18.90	19.65	5.37	99		5-5	0
17. v	1	S	18.20	19.25	5.45	99		16-0	11
		D	18.80	19.55	5.05	93		2-9	8
	2	S	16.40	16.19	5.53	94		4	13
		D	17.60	18.62	4.07	72		17	41
	3	S	17.50	15.27	5.17	88		13-4	173
		D	17.80	18.52	3.32	59		19-3	89
	4	S	16.90	16.72	5.47	94		4	21
		D	17.30	18.37	5.20	92		5	11
18. v	15	S	14.80	0.13	5.35	74		7-20	593
		D	15.00	0.05	5.04	70		2-33	717
	16	S	14.70	0.08	5.45	75		6-14	306
		D	14.70	0.09	5.39	74		7-11	331
19. v	14	S	15.00	0.09	4.93	68		1	568
		D	15.00	0.81	4.88	68		2	589
	13	S	15.00	2.40	5.08	72		9-0	376
		D	15.00	8.84	4.72	72		3-2	277
	12	S	15.40	5.33	4.91	72		4	240
		D	16.00	8.17	4.33	67		2	194

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
19. v	11	S	15.00	7.32	4.98	74		4-9	209
		D	15.80	9.87	4.86	76		4-8	163
	10	S	15.80	10.30	5.01	79		1	141
		D	16.20	11.11	4.95	79		6	128
20. v	9	S	15.30	9.56	5.25	81		2-15	185
		D	15.50	9.89	5.10	79		5-9	162
	8	S	15.90	10.42	5.35	84		7	156
		D	15.50	11.74	5.07	80		7	104
	7	S	15.50	13.89	5.39	88		6-12	58
		D	15.60	14.12	5.39	88		5-12	52
	6	S	16.40	14.14	5.39	89		3-12	49
		D	16.00	14.66	5.24	87		5-11	47
	5	S	15.90		5.81			4-15	
		D	15.90	14.74	5.36	88		4-13	36
21. v	25	S	12.25	0.03	7.09	93		1-7	19
		S	9.60	0.05	6.11	75		0-8	747
	24	S	10.20	0.05	3.85	48		0-17	867
	23	S	12.10	0.04	6.67	87		2-12	388
	22	S	11.80	0.04	6.68	87		6-6	449
	21	S	11.80	0.03	6.55	85		2-12	471
		D	11.80	0.04	6.47	84		2-1	527
	20	S	12.00	0.04	6.10	80		3-12	624
		D	12.10	0.04	5.42	71		4-7	657
	18	S	12.20	0.05	6.25	82		1-9	616
	18a	S	12.40	0.02	6.82	90		0-8	547
	17	S	14.30	0.03	5.30	72		0-22	581
		D	14.40	0.04	5.17	71		4-0	645
	19	S	14.40	0.03	5.65	77		3-11	511
		D	14.00	0.04	5.39	73		4-14	473
12. vi	16	S	13.10	0.12	6.45	86		0-16	568
		D	13.55	0.09	4.56	61		0-46	704
	15	S	13.20	0.04	6.16	82		0-20	634
		D	13.50	0.05	6.29	85		0-19	595
	14	S	13.40	0.04	5.81	78		0	643
		D	13.55	0.04	5.15	69		0	691
	13	S	13.50	0.22	5.79	78		1-17	651
		D	14.90	0.67	5.23	73		0-12	843

Location: **HAWKESBURY RIVER**

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1948</b>									
<b>12. vi</b>	<b>12</b>	S	14.10	2.46	5.65	79		0	542
		D	14.50	2.79	5.40	76		0	553
	<b>11</b>	S	14.40	5.45	5.50	80		0-10	408
		D	14.40	7.92	5.20	77		0-10	375
<b>13. vi</b>	<b>10</b>	S	14.90	8.85	4.99	76		7	274
		D	14.85		5.29			0-9	
	<b>9</b>	S	14.50	10.43	5.85	90		4-13	299
		D	14.70	10.50	5.40	83		6-7	199
<b>8</b>	S	14.80	9.88	5.32	82		8	235	
	D	15.00	13.75	3.40	55		7	233	
<b>7</b>	S	15.20	14.07	5.63	91		5-11	85	
	D	15.30	14.93	2.54	42		8-10	106	
<b>6</b>	S	15.40	14.00	5.85	95		5-6	91	
	D	15.65	16.55	5.37	90		7-9	47	
<b>5</b>	S	15.25	15.04	5.65	92		5-11	65	
	D	15.45	15.49	5.41	89		5-7	41	
<b>2</b>	S	15.50	17.71	5.20	88		6	0	
	D	15.60	18.47	3.83	66		17	36	
<b>3</b>	S	15.05	17.49	4.04	68		9-12	19	
	D	16.80	18.28	4.21	73		11-15	10	
<b>14. vi</b>	<b>4</b>	S	15.40	16.74	3.77	63		7	40
		D	15.50	17.16	5.45	92		2	4
<b>17. vi</b>	<b>25</b>	S	12.10	0.02	7.48	98		0-10	25
		S	11.50	0.06	7.25	94		5-22	708
	<b>24</b>	S	13.50	0.05	5.89	79		7-0	744
		S	14.00	0.04	7.85	107		6-13	280
	<b>22</b>	S	15.00	0.04	7.68	106		4-0	243
		S	13.90	0.04	7.70	104		2-4	250
	<b>21</b>	D	12.50	0.04	7.51	99		2-13	196
		S	13.90	0.05	6.85	93		4-14	315
	<b>20</b>	D	12.80	0.05	7.50	100		4-0	196
		S	13.00	0.02	6.87	92		3-9	33
	<b>18a</b>	S	13.60	0.02	5.40	73		6-2	265
		S	14.40	0.02	6.32	87		1-0	235
<b>17</b>	D	12.80	0.05	6.48	86		1-0	263	
	S	13.10	0.04	6.71	90		1-12	199	
<b>19</b>	S	13.10	0.04	6.71	90		1-12	199	
	D	12.60	0.04	6.63	88		2-9	194	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
16. vii	25	S	6.30	0.02	7.45	85		2-11	42
	26	S	6.10	0.06	8.43	96		2-5	283
	24	S	7.00	0.06	6.45	75		2-12	424
	23	S	7.50	0.05	8.59	101		5-8	291
	22	S	8.00	0.05	5.95	71		4-20	413
	21	S	8.70	0.04	7.65	93		2-12	280
		D	8.20	0.05	7.94	95		1-13	282
	20	S	9.00	0.04	7.80	95		4-5	387
		D	9.80	0.04	7.85	97		3-8	303
	18	S	8.00	0.05	7.82	93		1-4	382
	18a	S	9.20	0.03	8.02	98		2-3	291
	17	S	9.50	0.02	6.48	80		5-23	374
		D	10.30	0.04	5.74	72		4-14	406
	19	S	9.00	0.04	7.70	94		4-1	295
		D	9.00	0.05	7.30	89		4-13	262
26. vii	1	S	15.90	19.20	5.86	102		14-0	43
		D	16.55	19.51	5.77	102		8-5	41
	2	S	14.00	17.89	6.30	104		6	14
		D	16.80	18.76	3.09	54		31	133
	3	S	14.50	17.98	5.87	98		9-8	60
		D	15.50	18.29	3.93	67		9-11	53
	4	S	14.20	16.67	6.14	100		5	49
		D	15.20	18.35	5.75	98		9	63
27. vii	16	S	10.90	0.72	6.71	86		0-12	366
		D	10.90	0.15	6.57	84		4-7	421
	15	S	10.20	0.08	6.93	87		2-13	416
		D	10.20	0.06	6.92	86		5-17	441
	14	S	10.90	0.80	7.10	91		2	347
		D	10.40	1.21	6.61	84		11	327
	13	S	11.20	3.43	6.47	86		1-1	267
		D	11.20	5.59	6.06	82		5-7	214
	12	S	13.00	6.76	6.61	94		9	204
		D	12.10	7.06	6.45	91		10	198
	11	S	12.40	8.83	6.53	94		7-7	181
		D	12.45	10.90	5.99	88		6-12	73
	10	S	13.40	13.12	6.32	98		6	63
		D	13.00	13.02	5.16	79		8	83
28. vii	9	S	12.90	11.25	6.73	101		3-6	88
		D	12.65	11.99	6.44	97		5-7	87

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1948 28. vii	8	S	13.40	13.11	6.30	98		5	73	
		D	13.40	14.65	6.02	95		7	38	
	7	S	14.00	15.50	6.47	104		5-8	25	
		D	14.30	15.58	4.27	69		1-8	0	
	6	S	14.00	15.47	5.85	94		7-8	34	
		D	14.60	17.43	5.82	97		11-3	21	
	5	S	13.90	16.39	6.25	101		7-7	24	
		D	14.00	16.88	2.30	38		11	142	
	16. viii	1	S	15.20	19.35	6.02	104		4-9	0
			D	15.15	19.53	5.83	101		5-6	0
		2	S	15.00	18.22	5.89	100		3	0
			D	15.60	18.42	4.88	84		10	10
3		S	14.40	17.94	5.83	97		5-9	22	
		D	15.75	18.43	2.57	44		23-6	107	
4		S	15.10	17.95	6.35	107		3	0	
		D	15.50	19.00	5.83	100		2	5	
17. viii	16	S	12.50	1.11	6.80	91		2-6	534	
		D	12.40	1.21	6.75	90		3-8	500	
	15	S	12.50	2.52	6.84	92		3-3	461	
		D	12.60	3.03	6.68	91		4-0	422	
	14	S	12.90	4.82	6.62	92		3	380	
		D	13.00	5.74	6.41	91		6	326	
	13	S	13.80	7.17	6.58	96		3-8	232	
		D	14.10	9.17	6.20	93		3-6	174	
	12	S	13.80	8.87	6.48	96		1	203	
		D	13.90	10.65	6.25	95		1	132	
	11	S	14.20	10.61	6.58	101		1-8	96	
		D	14.10	12.46	6.15	96		2-21	76	
	10	S	14.50	12.50	6.62	104		1	57	
		D	14.70	12.64	6.64	105		2	68	
	18. viii	9	S	14.50	13.64	6.62	105		1-8	7
			D	14.50	13.87	4.90	78		5-10	127
8		S	14.40	14.26	6.48	104		2	3	
		D	14.20	15.14	6.14	99		1	4	
7	S	14.20	16.40	6.23	102		2-14	0		
	D	14.60	16.88	6.07	100		3-7	0		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
18. viii	6	S	14.50	15.81	6.34	103		0-9	5
		D	13.90	16.96	6.12	100		2-7	4
	5	S	15.90	16.44	6.03	102		2-7	49
20. viii	25	S	11.00	0.04	7.53	96		1-10	224
	26	S	9.70	0.13	6.95	86		1-11	606
	24	S	10.70	0.08	6.68	85		2-11	878
	23	S	11.10	0.06	7.78	88		9-0	338
	22	S	12.10	0.06	5.35	70		2-10	386
	21	S	13.00	0.04				0-9	309
		D	12.70	0.04	7.03	93		0-9	327
	20	S	12.90	0.04	6.99	93		1-8	301
		D	13.00	0.05	6.78	91		1-8	374
	18	S	13.10	0.04	6.78	91		0-7	808
	18a	S	14.40	0.05	7.20	99		3-16	718
	17	S	14.10	0.05	7.25	99		1-7	574
		D	13.00	0.05	7.19	96		1-7	365
	19	S	13.30	0.05	7.25	97		2-6	367
		D	13.10	0.05	7.17	96		1-6	285
24. ix	25	S	14.20	0.05	6.84	93		0-9	212
	26	S	14.10	0.19	6.50	89		1-5	81
	24	S	15.00	0.09	7.04	98		1-6	1173
	23	S	15.80	0.05	6.92	97		0-5	112
	22	S	15.40	0.05	5.80	81		2-4	185
	21	S	17.20	0.04	6.18	89		1-4	129
		D	17.50	0.04	5.88	85		1-8	136
	20	S	17.20	0.05	5.92	85		1-5	148
		D	17.40	0.05	6.10	88		1-6	163
	18	S	15.00	0.05	6.25	87		0-7	1967
	18a	S	14.70	0.04	6.95	96		4-5	1987
	17	S	16.10	0.05	6.65	94		2-4	707
		D	16.40	0.06	6.72	96		0-6	681
	19	S	16.20	0.05	6.98	99		1-8	227
		D	16.30	0.05	6.94	98		2-6	248
27. ix	3	S	18.20	17.99	6.67	119		4-14	0
		D	15.30	18.41	3.77	64		11-13	6

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
27. ix	2	S	16.50	18.41	5.72	99		4	0
		D	16.00	18.58	4.02	70		10	0
	4	S	16.00	18.80	5.82	101		6	0
		D	17.05	19.30	5.77	102		7	0
28. ix	16	S	17.40	1.21	5.68	83		0-8	259
		D	17.60	0.72	5.65	83		1-12	333
	15	S	16.80	1.84	6.34	92		7-0	295
		D	16.80	3.09	6.46	95		0-5	265
	14	S	16.80	3.79	5.48	82		2	216
		D	14.60	5.24	6.67	97		0	173
	13	S	16.90	6.24	6.14	94		1-3	138
		D	16.90	9.31	5.68	90		4-5	162
	12	S	17.30	7.73	5.82	91		3	109
		D	17.20	9.65	5.95	95		3	72
	11	S	17.50	9.95	6.26	101		1-5	52
		D	16.95	10.50	6.08	98		0-10	37
	10	S	17.80	11.93	6.21	103		7	19
		D	17.15	13.18	5.83	97		1	12
29. ix	9	S	18.50	14.04	5.94	102		3-3	12
		D	16.80	14.08	6.06	101		2-10	0
	8	S	17.70	14.98	5.88	101		2	5
		D	17.20	15.70	5.63	96		6	0
	7	S	17.50	16.76	5.80	101		3-6	0
		D	16.35	17.14	5.57	95		4-7	48
	6	S	17.70	16.97	4.78	84		2-10	7
		D	16.20	17.35	5.73	98		5-7	0
	5	S	17.10	17.63	5.63	98		6-6	4
		D	17.10	17.71	5.56	97		1-11	6
	1	S	16.30	19.14	5.39	94		6-6	0
		D	16.10	19.59	5.45	95		7-8	0
12. xi	25	S	17.50	0.04	6.77	98	5.73	0-7	34
	26	S	20.10	0.17	4.45	68	7.13	0-7	27
	24	S	22.10	0.12	4.73	75	6.75	2-5	1415
	23	S	23.50	0.05	6.00	97	6.79	2-3	51
	22	S	25.50	0.05	4.27	71	6.52	0-13	48
	21	S	24.00	0.05	6.04	98	6.82	2-4	13
		D	23.00	0.05	6.12	98	6.79	0-3	18

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
12. xi	20	S	22.00	0.06	5.98	94	6.82	0-7	28
		D	22.00	0.05	5.97	94	6.57	0-7	20
13. xi	18	S	23.20	0.04	6.17	99	6.27	0-4	296
	18a	S	19.50	0.04	5.65	85	6.37	0-4	547
	17	S	22.20	0.27	6.08	96	8.84	0-6	168
		D	23.80	0.30	5.96	97	6.88	0-2	180
16. xi	19	S	22.50	0.06	6.22	99	6.51	0-6	41
		D	23.00	0.06	6.08	97	6.67	0-4	38
	15	S	22.30	5.86	5.50	92	7.91	0-7	7
		D	22.20	6.02	5.58	93	7.97	3-5	8
	16	S	22.10	5.35	5.58	93	7.93	2-3	12
		D	22.20	5.43	5.52	92	7.60	0-9	19
	14	S	21.80	9.27	5.69	98	7.78	6	13
		D	21.80	9.58	5.67	98	7.89	0	7
	13	S	21.60	12.09	5.22	92	7.82	0-8	9
		D	21.70	12.34	5.00	89	7.79	1-9	9
	12	S	21.50	14.53	4.68	89	7.82	0	15
		D	21.60	14.65	4.78	87	7.89	10	13
11	S	22.20	16.38	4.68	88	7.88	3-11	13	
	D	21.20	16.77	4.72	87	7.73	2-8	14	
10	S	21.00	17.07	4.54	84	7.79	6	15	
	D	20.90	17.17	4.55	84	7.89	6	14	
17. xi	1	S	18.00	19.33	5.42	98	8.09	7-0	12
		D	17.80	19.44	5.43	98	8.01	7-1	13
	9	S	21.20	16.77	4.54	84	7.91	6-14	14
		D	21.20	16.90	4.53	84	7.87	6-2	16
	8	S	21.00	17.19	4.75	88	7.93	6	14
		D	21.50	18.05	4.74	89	7.72	6	13
	7	S	20.50	18.05	4.73	88	7.93	7-18	14
		D	20.40	18.07	4.56	85	7.79	9-14	13
	6	S	20.00	18.48	4.52	84	7.82	5-23	13
		D	19.80	18.44	4.85	89	7.96	2-33	13
	5	S	20.40	18.02	4.75	88	7.93	7-10	4
		D	20.20	18.07	4.55	84	7.98	3-28	0
	3	S	20.80	18.54	4.97	93	7.96	6-13	0
		D	18.40	18.74	3.12	56	7.96	9-18	0
	2	S	20.30	18.64	5.25	96	8.00	6	0
		D	18.20	19.11	4.07	73	7.91	11	4
4	S	19.30	18.84	5.00	92	8.02	5	0	
	D	19.40	18.84	4.92	91	8.00	3	24	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
17. 11	25	S	19.60	0.04	6.56	99		3-2	26
	26	S	22.30	0.20	4.19	66		3-6	36
	24	S	22.80	0.15	5.17	82		0-5	7
	23	S	24.00	0.05	5.37	87		0-2	5
	22	S	25.60	0.02	5.12	86		3-1	11
	21	S	26.50	0.05	5.69	96		2-4	0
		D	25.40	0.06	5.57	93		1-6	0
	20	S	24.60	0.05	5.69	93		1-14	0
		D	25.00	0.06	5.47	91		2-10	0
	18	S	26.60	0.04	5.26	89		1-6	11
	18a	S	30.00	0.02	5.77	103		6-3	39
	17	S	26.00	1.25	5.41	92		0-5	33
		D	25.20	1.25	5.47	92		3-10	0
	19	S	25.30	0.23	5.39	90		0-9	0
D		25.40	0.12	5.50	92		3-3	0	
1949									
18. 11	25	S	21.10		5.70		5.68	5-0	7
	26	S	22.20	0.11	4.45	70	6.58	9-1	284
	24	S	23.10	0.10	3.74	60	6.31	5-13	284
	23	S	24.50	0.06	4.21	69	6.41	4-5	112
	22	S	25.60	0.06	3.04	51	6.08	5-15	255
	21	S	26.60	0.07	4.45	75	6.16	4-8	62
		D	26.60	0.05	4.00	68	6.15	6-12	131
	20	S	26.40	0.05	4.28	72	6.19	5-10	108
		D	27.30	0.05	4.24	73	6.08	3-8	145
	18	S	26.70	0.06	3.95	67	5.87	4-7	216
	18a	S	29.20		4.67		5.82	3-8	247
		D	27.80	0.08	3.76	65	7.93	13-6	382
	17	S	27.20	0.06	3.69	63	5.78	9-11	429
		D	27.20	0.18	4.57	78	6.06	9-3	368
	19	S	27.00		4.65		6.02	7-11	300
		D	27.00		4.65		6.02	7-11	300
	24. 11	7	S	22.20	16.41	4.41	83	7.93	8-10
D			22.40	16.78	4.55	86	7.95	10-6	40
3		S	22.30	17.57	3.53	67	7.78	12-11	19
		D	22.50	18.45	1.02	20	7.70	9-14	4

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
24. 11	2	S	22.50	17.54	4.80	91	8.08	3	4
		D	21.50	18.98	0.33	6	7.62	43	88
	1	S	23.00	18.19	4.63	90	8.08	9-4	10
		D	21.80	18.70	4.70	90	8.12	4-11	0
	4	S	22.80	18.26	4.50	87	8.08	8	10
		D	22.00	18.41	4.45	85	8.13	6	0
	5	S	21.60	15.85	4.53	84	7.91	6-20	9
		D	20.80	15.83	4.49	82	7.97	3-17	16
	6	S	23.20	16.19	4.55	86	7.93	10-9	51
		D	22.50	16.62	4.27	81	7.98	6-6	45
25. 11	16	S	22.60	1.37	3.89	63	6.90	20-9	590
		D	23.80	1.51	3.68	61	6.74	14-9	612
	15	S	24.80	3.12	3.81	65	7.12	6-17	597
		D	24.10	3.28	3.63	61	7.06	4-19	604
	14	S	24.80	4.13	3.97	68	7.09	8	478
		D	24.20	5.00	3.69	63	7.02	4	545
	13	S	24.90	7.05	3.85	68	7.22	3-26	394
		D	24.30	7.85	3.67	65	7.35	9-15	444
	12	S	25.10	8.07	4.00	72	7.40	5	413
		D	24.20	8.66	3.83	68	7.46	6	413
	11	S	22.10	2.53	4.23	68	7.18	4-22	74
		D	21.70	5.73	4.13	68	7.15	7-26	163
	10	S	23.50	9.64	4.21	75	7.53	8	188
		D	22.80	10.25	4.01	71	7.50	10	188
	9	S	22.90	12.26	4.82	87	7.71	3-14	56
		D	22.20	13.26	4.27	77	7.68	5-30	78
	8	S	23.50	12.11	4.32	79	7.60	6	133
		D	23.20	13.16	4.23	78	7.72	8	83
22. 11	25	S	14.60	0.15	6.12	84	7.22	10-17	32
		S	13.60	0.15	3.69	50	7.30	9-19	654
		S	17.70	0.07	2.86	42	6.69	6-25	1351
		S	17.00	0.04	5.02	72	7.26	0-15	150
		S	17.00	0.05	5.60	80	6.97	3-3	142
		S	17.30	0.04	5.29	76	6.91	1-14	214
		D	17.00	0.04	5.23	75	6.27	3-62	288
		S	17.80	0.04	5.54	81	7.16	4-5	142
		S	15.30	0.03	5.82	81	6.45	3-9	473

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1949										
22. iv	18a	S	19.00	0.03	5.96	89	6.92	3-13	542	
		D	19.60	0.05	5.12	77	6.17	5-14	365	
	19	D	19.60	0.05	5.27	79	6.27	7-8	312	
		S	19.40	0.04	5.19	78	6.24	4-8	266	
		D	19.40	0.04	5.31	80	6.21	7-14	281	
		S	19.40	0.04	5.31	80	6.21	7-14	281	
2. v	4a	S	19.20	19.33	5.36	99	8.24	4-6	0	
		D	19.40	19.30	4.86	90	7.14	6-9	5	
	2	S	19.30	19.18	5.66	104	8.25	6-32	0	
		D	18.80	19.28	5.07	93	7.96	6-21	2	
	1	S	19.00	19.22	5.30	97	8.19	5-15	0	
		D	18.60	19.25	5.14	94	8.20	5-19	0	
	4	S	18.80	17.90	5.24	94	8.18	5	0	
		D	18.60	18.04	5.30	95	8.17	5	13	
	3. v	16	S	17.90	0.36	5.02	73	7.20	4-21	345
			D	18.00	0.34	5.18	76	7.31	5-26	335
		15	S	19.20	0.73	5.15	78	6.71	5-13	335
			D	18.40	1.00	5.07	75	7.11	7-4	339
14		S	20.00	2.61	5.08	79	7.14	3	313	
		D	18.40	3.50	4.69	72	7.46	7	327	
13		S	19.10	6.20	4.97	79	7.66	3-12	226	
		D	18.60	6.85	4.53	72	7.44	8-44	310	
12		S	21.90	8.23	4.97	85	7.78	4	209	
		D	19.00	9.98	4.61	76	7.62	8	234	
11		S	23.80	11.37	4.94	90	7.61	6-8	125	
		D	19.30	12.45	2.93	50	7.82	8-22	124	
10		S	19.30	13.65	4.91	85	7.95	6	72	
		D	18.80	14.32	5.14	89	7.99	10	64	
4. v		9	S	19.60	13.95	5.11	89	7.94	6-5	68
			D	19.00	14.55	4.64	81		7	96
		8	S	19.00	14.80	5.15	90	8.04	4	47
			D	18.50	16.17	4.88	86	8.06	6	37
	7	S	23.00	16.66	5.35	102	8.09	10	16	
		D	19.50	17.08	4.85	88	8.08	7-16	26	
	6	S	19.40	16.73	5.15	92	8.12	12-4	24	
		D	18.50	17.65	4.51	81	8.18	8-14	25	

Location: **HAWKESBURY RIVER**

Date	Station	Depth	Temp. °C.	Cl <sup>-</sup> /oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
<b>1949</b>										
<b>4. v</b>	5	S	19.30	16.43	5.31	95	8.13	3-8	23	
		D	18.70	17.31	5.08	91		8-7	21	
	3	S	18.90	18.10	4.13	75	7.96	22-12	69	
		D	19.40	18.39	3.81	70	7.98	25-15	44	
<b>1. vii</b>	25	S	9.20	0.06	7.44	91		0-11	11	
	26	S	8.80	0.05	8.06	98		2-11	151	
	24	S	9.60	0.05	7.08	87		4-7	537	
	23	S	8.20	0.04	8.67	103		4-27	719	
	22	S	9.00	0.06	7.92	96		5-24	747	
	21	S	8.70	0.05	7.70	93		6-18	579	
		D	7.30	0.04	7.68	90		6-21	710	
	20	S	9.30	0.03	7.28	89		4-37	759	
	18	S	9.50	0.05	6.68	82		6-9	710	
	18 <sub>a</sub>	S	9.20	0.05	7.48	91		8-7	559	
	17	S	9.20	0.05	6.35	78		8-14	593	
		D	9.40	0.04	5.23	64		8-16	594	
	19	S	9.60	0.04	6.43	79		8-17	494	
		D	9.50	0.04	6.08	75		6-20	481	
	<b>12. vii</b>	16	S	9.50	0.08	6.68	82	6.36	4-14	520
			D	9.40	0.05	6.74	83	6.32	3-22	551
15	S	9.60	0.05	6.77	83	6.32	6-11	480		
	D	9.60	0.05	6.61	81	6.33	8-18	465		
14	S	9.70	0.05	6.59	81	6.22	9	407		
	D	9.70	0.04	6.50	80	6.39	7	444		
13	S	10.55	0.60	6.62	84	6.68	6-17	482		
	D	9.90	0.86	6.58	82	6.83	7-16	575		
12	S	10.90	2.70	6.18	81	7.14	6	354		
	D	11.00	3.48	6.51	86	6.95	7	359		
11	S	11.90	5.24	6.25	86	7.03	5-8	314		
	D	11.80	5.66	6.16	85	6.85	6-7	328		
10	S	12.50	7.23	6.25	89	7.21	3	215		
	D	12.60	7.21	6.23	89	7.49	4	242		
<b>14. vii</b>	9	S	12.80	7.91	6.50	94	7.90	3-10	163	
		D	12.60	8.43	5.95	86	7.91	1-14	162	
8	S	13.20	8.68	6.14	90	8.02	5	189		
	D	13.00	10.69	5.74	86	7.55	8	90		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
<b>1949</b>										
14. vii	7	S	13.90	12.85	7.14	110	8.12	3-17	30	
		D	13.60	12.85	7.13	110	8.14	3-10	51	
	6	S	13.90	13.19	6.19	97	8.16	5-11	72	
		D	14.10	13.90	5.58	88	8.10	8-24	88	
	5	S	13.60	13.05	6.13	95	8.17	1-16	93	
		D	13.50	12.89	6.22	96	8.11	2-15	104	
15. vii	1	S	16.30	18.51	5.74	99	8.25	3-17	4	
		D	17.20	19.51	5.32	95	8.22	9-7	20	
	4	S	15.60	16.93	6.15	104	8.17	1-13	30	
		D	14.80	18.88	5.41	92	8.23	8-9	24	
	2	S	9.90	16.09	8.27	145	8.44	3	0	
		D	17.20	17.98	3.83	67	8.04	12	108	
	3	S	14.90	15.62	6.48	106	7.87	3-14	93	
		D	17.80	11.11	2.47	41	7.89	16-7	144	
	23. ix	25	S	13.80	0.21	6.42	87	6.18	13-3	29
		26	S	14.00	0.14	6.48	88	6.63	1-8	460
		24	S	15.70	0.12	5.66	79	6.20	3-12	1176
		23	S	13.40	0.05	7.00	94	6.45	4-12	204
22		S	12.60	0.05	6.54	87	6.33	7-11	174	
21		S	15.80	0.05	5.30	75	6.41	5-23	178	
		D	15.00	0.06	7.07	98	6.35	4-20	191	
20		S	14.70	0.07	6.16	85	6.44	5-20	226	
18		S	14.40	0.03	5.97	82	6.01	6-6	338	
18 <sub>a</sub>		S	14.40	0.03	6.32	87	6.23	5-9	340	
		D	16.00	0.04	6.02	85	6.31	4-11	245	
17		S	16.00	0.04	6.07	86	6.36	5-9	235	
		D	16.00	0.04	6.07	86	6.36	5-9	235	
19		S	15.80	0.06	6.48	91	6.32	4-10	184	
	D	15.60	0.06	6.10	85	6.43	2-16	182		
28. ix	16	S	15.00	0.07	5.54	77	6.48	1-29	97	
		D	15.80	0.06	5.34	75	6.36	3-30	111	
	15	S	15.50	0.06	5.54	77	6.46	2-49	153	
		D	15.40	0.06	5.44	76	6.47	5-15	152	
	14	S	14.90	0.05	5.58	77	6.67	4	146	
		D	15.85	0.05	5.51	78	6.58	3	132	
13	S	16.20	0.05	5.61	79	6.51	5-9	291		
	D	16.20	0.05	5.68	80	6.68	3-17	340		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949 28. ix	12	S	16.40	0.23	5.67	81	6.92	5	315
		D	16.30	0.27	5.35	76	6.74	5	325
	11	S	16.50	1.44	5.68	82	7.38	5-3	288
		D	16.45	1.55	5.67	82	7.29	2-16	235
	10	S	16.75	5.17	5.63	85	8.15	3	204
		D	17.00	10.73	5.07	82	8.05	4	94
29. ix	9	S	18.10	3.93	6.10	93	7.45	1-8	131
		D	16.95	7.84	5.60	88	7.98	3-11	92
	8	S	17.70	5.34	6.20	96	7.79	3	114
		D	11.50	9.08	5.66	81	8.06	3	62
	7	S	18.00	8.01	6.39	102	7.85	0-13	50
		D	17.65	12.31	5.62	93	8.09	5-15	25
	5	S	18.60	7.33	6.30	100	8.23	2-7	56
		D	18.30	7.73	6.24	100	8.18	3-12	83
	6	S	17.95	8.65	6.11	98	8.11	3-10	51
		D	17.70	13.21	5.63	94	8.16	4-13	18
30. ix	3	S	18.50	9.55	7.22	118	8.26	9-14	441
		D	17.00	14.81	3.96	67	7.99	8-12	4
	4	S	17.70	16.13	5.88	102	8.24	4	85
		D	18.30	18.59	5.18	93	8.39	4	4
	1	S	18.35	16.73	5.72	101	8.32	4-7	5
		D	18.60	18.52	5.27	95	8.35	6-16	3
	2	S	18.00	16.52	5.48	96	8.31		0
		D	17.80	18.30			8.30		0
	4a	S	18.45	16.98	5.73	101	8.49		0
		D	17.65	18.56	5.38	96	8.28		0
19. xi		S	19.00	0.10	6.15	92	6.35	1-6	0
		S	22.20	0.14	5.67	90	7.32	2-8	30
		S	22.20	0.12	4.65	73	6.86	3-10	1510
		S	24.00	0.05	4.03	65	6.51	12-43	829
		S	24.50	0.04	4.99	82	6.38	6-51	365
		S	24.80	0.05	5.42	89	6.49	1-15	298
		D	24.40	0.05	5.45	89	6.41	5-9	327
		S	25.40	0.05	5.33	89	7.29	2-17	437
		S	26.00	0.05	5.55	93	6.45	3-6	477
		S	28.00	0.05	5.76	100	7.07	2-7	602

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl %/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
19. xi	17	S	24.40	0.05	5.71	93	6.39	1-14	385
		D	23.90	0.06	5.78	94	6.39	2-13	475
	19	S	23.70	0.05	5.68	92	6.46	4-16	435
		D	23.80	0.06	5.82	94	6.41	4-18	473
22. xi	15	S	24.10	2.01	5.66	94	7.11	2-12	175
		D	23.80	2.23	5.57	92	7.35	1-13	157
	16	S	23.90	0.64	5.44	89	6.84	3-16	264
		D	23.90	0.67	5.50	90	6.84	2-22	231
	4a	S	21.90	19.22	5.14	99	8.03	7-10	6
		D	18.50	19.33	4.72	86	8.02	11-10	0
	2	S	21.25	19.25	5.33	101	7.91	7-7	0
		D	18.00	19.31	4.50	81	7.85	15-3	0
	1	S	18.80	19.28	4.93	90	7.98	13-6	17
		D	16.10	19.50	4.48	78	8.03	17-3	53
	4	S	20.30	18.21	4.44	82	7.88	11	33
		D	16.90	19.26	4.07	72	7.98	20	75
	3	S	24.05	15.61	5.14	98	7.48	24-7	108
		D	20.20	18.34	3.42	63	7.87	14-6	0
	5	S	20.85	17.60	4.51	84	7.87	10-24	21
		S	21.10	17.40	4.44	83	7.87	14-13	0
	6	D	20.20	17.98	4.41	82	7.89	12-37	6
		S	22.30	16.72	4.44	84	7.78	10-11	0
	7	D	21.10	17.34	4.41	83	7.87	9-34	3
		S	22.00	16.19	4.41	82	7.92	9-18	0
	8	D	21.60	16.69	4.48	83	7.81	12-28	0
		S	22.85	14.75	4.48	83	7.76	24-0	0
	9	D	22.55	14.91	4.45	83	7.72	10-14	0
		S	22.40	15.51	4.49	84	6.78	8	0
	10	D	22.30	15.59	4.35	81	7.47	9	6
		S	23.00	13.69	4.44	82	7.74	7-17	26
	11	D	22.50	14.48	4.41	81	7.58	7-39	13
		S	23.40	10.38	4.68	84	6.70	6	38
	12	D	23.10	11.45	4.54	82	7.47	7	34
		S	23.90	7.71	5.02	88	7.23	7-10	64
	13	D	23.30	8.24	4.91	86	7.57	10-6	83
		S	23.70	5.00	5.28	90	7.19	4	110
	14	D	23.40	5.13	5.10	86	7.24	6	107

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1950										
13.1	25	S	21.70	0.10	6.01	94	5.34	3-5	10	
	26	S	25.60	0.17	5.35	89	6.50	2-13	12	
	24	S	25.50	0.18	5.26	88	6.10	3-13	763	
	23	S	27.30	0.06	5.27	91	6.31	2-9	86	
	22	S	29.70	0.11	3.74	68	6.00	5-22	336	
	20	S	27.40	0.34	4.98	86	6.28	2-16	158	
	18	S	27.60	0.04	5.32	92	5.85	5-8	218	
	18a	S	29.90	0.03	5.23	93	5.93	1-11	240	
	14.1	21	S	27.80	0.06	5.45	94	6.24	0-13	93
			D	27.50	0.05	4.55	78	6.17	1-12	69
17		S	27.00	0.06	5.84	100	6.79	9-11	189	
		D	27.40	0.18	5.80	100	6.14	7-8	164	
19		S	27.20	0.17	6.62	114	6.20	3-13	84	
20.1		D	27.10	0.08	6.40	109	6.15	0-17	147	
	9	S	27.20	5.89	5.16	94	7.62	2-23	33	
		D	24.50	10.96	3.84	70	7.59	6-34	6	
	8	S	25.80	4.18	3.88	68	7.32	9	139	
		D	25.60	4.22	4.08	71	7.49	5	76	
	7	S	25.60	5.36	4.17	73	7.38	3-38	129	
		D	25.40	6.03	3.98	70	7.57	7-85	88	
	6	S	23.30	4.44	3.90	65	7.36	1-36	91	
		D	22.00	14.80	3.85	71	7.76	10-74	13	
	5	S	24.70	3.97	3.90	67	7.35	2-30	69	
		D	24.20	11.81	3.91	72	7.59	7-24	42	
	4	S	24.40	8.13	4.38	78	7.68	2	38	
			23.60	10.60	4.24	76	7.77	4	12	
	2	S	24.20	12.50	4.50	84	7.72	7	48	
		D	21.40	18.63	0.17	3	7.66	36	5	
3	S	25.00	14.95	4.65	90	8.01	6	5		
	D	24.00	18.32	3.32	65	7.95	11	0		
1	S	23.00		5.04		7.92	2-22	20		
4a	S	23.60	19.16	5.06	100	8.17	6-13	3		
	D	22.60	19.36	4.50	88	8.05	12-14	0		
16	S	25.60	2.67	5.05	86	7.38	2-8	12		
	D	25.60	2.89	4.94	85	7.40	1-13	27		
15	S	25.50	2.82	4.91	84	7.43	3-12	7		
	D	25.50	3.15	4.81	83	7.52	8-14	28		
14	S	25.70	6.62	4.45	80	7.53	5	27		
	D	25.50	7.89	3.98	72	7.45	1	66		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl %/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
<b>1950</b>										
20.1	13	S	25.60	7.63	4.02	73	7.51	4-17	55	
		D	25.50	8.32	4.02	73	7.51	2-33	127	
	12	S	25.60	10.70	3.81	71	7.55	8	70	
		D	25.40	10.70	3.92	73	7.54	5	57	
	11	S	25.00	11.20	3.88	72	7.52	5-17	49	
		D	24.90	11.36	3.76	70	7.52	7-34	149	
	10	S	25.20	13.42	3.83	73	7.54	9	93	
		D	24.80	13.79	3.73	71	7.57	5	68	
	17.11	25	S	20.70	0.05	5.80	89	5.84	0-12	4
		26	S	21.40	0.04	6.09	95	5.50	2-10	22
24		S	21.60	0.05	5.15	80	6.03	1-11	106	
23		S	22.20	0.05	3.75	59	6.17	7-32	661	
22		S	22.10	0.05	5.39	85	6.29	10-34	319	
21		S	22.80	0.05	5.09	81	6.02	10-23	289	
		D	22.80	0.05	5.33	85	6.14	7-25	200	
20		S	22.90	0.05	4.94	79	6.31	6-19	178	
18		S	23.50	0.03	5.24	84	5.81	3-23	128	
18a		S	21.20	0.05	5.36	83	5.90	3-16	189	
17		S	22.10	0.05	3.24	51	5.83	2-15	211	
		D	23.00	0.04	3.51	56	6.21	9-21	183	
19		S	22.80	0.04	4.62	74	6.03	2-25	161	
	D	22.80	0.05	4.30	69	5.94	3-27	186		
22.11	4a	S	22.35	16.16	2.49	47	8.04	1-12	0	
		D	20.90	19.12	2.30	43	8.18	25-3	71	
	1	S	22.30	11.43	4.45	79	7.34	7-2	26	
		D	22.00	19.67	4.55	88	8.31	4-8	0	
	4	S	22.20	19.48	4.45	86	8.21	4	42	
		D	22.30	8.56	4.16	72	8.47	5	28	
	6	S	21.90	4.56	4.03	66	8.03	5-8	65	
		D	22.30	13.76	4.23	77	8.25	12-16	326	
	5	S	21.90	4.47	1.67	27	8.19	6-28	60	
		D	22.40	17.36	4.40	83	8.19	7-13	0	
	7	S	21.80	3.00	4.27	69	7.73	6-4	57	
		D	22.10	4.99	4.00	66	8.12	6-9	87	
	8	S	22.10	1.93	4.20	67	6.76	7	69	
		D	21.85	4.11	3.88	63	7.33	1	58	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
22. 11	9	S	21. 80	0. 62	4. 30	68	6. 83	0-31	86
		D	24. 20	0. 77	4. 16	69	6. 76	6-24	92
	10	S	21. 70	1. 07	4. 38	69	6. 85	8	142
		D	22. 10	7. 47	4. 12	70	7. 69	7	257
	11	S	22. 10	0. 07	4. 30	68	6. 43	15-28	93
		D	21. 70	0. 05	4. 12	64	6. 33	10-44	316
	12	S	20. 80	0. 04	4. 36	67	6. 21	10	107
		D	24. 85	0. 05	4. 02	66	6. 49	5	139
	13	S	21. 60	0. 03	4. 40	69	6. 21	3-27	101
		D	21. 30	0. 05	4. 37	68	6. 00	3-39	133
	14	S	23. 10	0. 04	4. 45	71	6. 27	3	112
		D	21. 35	0. 04	4. 32	67	5. 81	0	118
	15	S	22. 00	0. 04	4. 37	69	5. 78	5-39	104
		D	21. 70	0. 04	4. 15	65	6. 54	3-39	110
	16	S	22. 70	0. 04	4. 43	71	6. 52	7-29	92
		D	21. 50	0. 05	4. 31	67	6. 50	11-17	105
23. 11	3	S	20. 62		6. 67			1-13	7
		D	20. 60	13. 44	2. 15	38		7-18	58
24. 11	2	S	24. 40	10. 31	3. 68	68		0	0
		D	21. 60	18. 33	1. 15	22		19	60
17. 111	25	S	20. 05	0. 10	5. 60	85	8. 12	0-9	5
	26	S	19. 90	0. 03	5. 95	90	7. 82	2-10	53
	24	S	20. 60	0. 03	4. 29	66		2-15	187
	23	S	20. 00	0. 04	6. 25	95		1-25	109
	22	S	20. 30	0. 04	5. 99	92	6. 89	2-23	116
	21	S	20. 20	0. 04	5. 78	88	6. 89	8-21	123
		D	20. 25	0. 04	5. 76	88	6. 89	0-7	126
	20	S	20. 45	0. 04	5. 75	88	7. 19	3-34	174
	18	S	20. 40	0. 04	5. 50	84		3-13	251
	18a	S	21. 30	0. 04	5. 38	84	6. 81	2-7	235
	17	S	22. 40	0. 04	4. 85	77	7. 56	6-20	91
		D	22. 40	0. 04	4. 74	75		6-29	105
	19	S	20. 50	0. 04	4. 94	76	6. 87	6-13	89
		D	20. 55	0. 04	5. 14	79	7. 42	5-31	189
28. 111	3	S	24. 80	9. 95	5. 26	96		9-28	156
		D	22. 70	14. 65	2. 79	52		7-47	76

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
28.111	2	S	24.60	9.57	6.60	120		4	14
		D	20.80	18.70	1.65	31		8	96
29.111	4	S	21.70	5.91	2.36	39		4	70
		D	21.20	19.20	2.17	41		6	5
	1	S	21.90	12.62	2.04	36		3-12	26
		D	21.90	18.92	5.19	99		2-3	3
	4a	S	22.50	13.05	5.70	104		8-0	0
		D	21.40	19.15	0.97	18		5-32	11
	5	S	23.20	5.40	4.88	82		5-16	49
		D	23.10	5.53	4.64	79		1-30	39
	6	S	21.90	4.87	4.51	74		0-23	105
		D	21.60	13.09	4.64	83		6-43	36
	7	S	22.80	5.67	4.54	77		7-23	79
		D	22.60	5.63	4.52	76		5-18	103
	8	S	22.00	2.69	4.42	71		9	131
		D	21.10	17.36	4.53	84		10	18
	9	S	22.60	1.69	4.38	71		9-11	113
		D	23.00	1.77	4.47	73		6-15	158
30.111	16	S	20.07	0.12	5.04	77		8-15	87
		D	20.08	0.04	5.15	78		8-17	87
	15	S	20.80	0.03	5.15	79		10-6	91
		D	20.80	0.04	5.16	80		8-12	121
	14	S	21.10	0.03	5.14	80		9	148
		D	21.10	0.03	5.05	78		6	137
	13	S	21.20	0.11	5.24	81		10-10	131
		D	21.20	0.03	5.17	80		8-22	133
	12	S	21.40	0.05	5.21	81		7	144
		D	21.40	0.04	5.20	81		9	176
	11	S	21.80	0.05	5.31	83		11-15	164
		D	22.00	0.05	5.12	81		7-31	179
	10	S	21.80	0.13	5.08	80		7	145
		D	21.80	0.31	5.00	79		5	
19.1v	2	S	20.30	11.52	6.96	120	8.18	4	13
		D	21.30	18.25	1.90	36	7.93	21	116
	4	S	20.50	13.86	5.39	95	8.18	5-14	14
		D	20.30	17.88	5.00	92	8.12	6-11	14

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1950										
19.1v	1	S	20.70	17.61	5.13	95	8.14	5-6	13	
		D	20.50	19.30	5.09	96	8.20	9-2	0	
	4a	S	20.90	18.18	5.40	101	8.59	5-4	0	
		D	21.00	19.10	5.21	98	8.13	7-2	0	
	6	S	20.70	10.76	4.69	81	8.01	6-13	32	
		D	20.70	14.80	4.48	81	8.09	8-18	71	
	5	S	21.00	10.88	4.92	85	7.91	6-8	62	
		D	20.90	11.96	4.48	78	7.95	11-6	92	
	7	S	20.40	9.12	4.43	74	7.47	6-8	80	
		D	20.50	13.24	4.51	79	7.98	7-8	50	
	8	S	21.20		4.25		7.77	7	103	
		D	20.60	11.06	4.32	74	7.77	7	67	
	20.1v	16	S	18.20	0.31	4.79	70	6.84	5-13	405
			D	18.40	0.09	4.12	61	6.61	21-0	594
		15	S	18.30	0.06	4.82	71	6.51	15-4	420
			D	18.00	0.05	4.35	64	6.34	8-21	388
14		S	18.40	0.06	4.64	68	6.34	7	387	
		D	18.40	0.05	4.66	69	6.42	4	370	
13		S	18.80	0.07	4.46	66	6.39	8-12	320	
		D	18.80	0.07	4.23	63	6.59	10-13	315	
12		S	18.90	0.13	4.01	60	6.86	9	357	
		D	19.00	0.55	3.75	56	7.37	9	256	
11		S	19.30	2.27	3.81	59	7.00	8-4	156	
		D	19.70	5.69	3.71	59	6.91	9-1	114	
10		S	19.80	7.02	4.11	67	7.74	8	81	
		D	19.90	7.96	3.52	58	6.94	5	98	
21.1v		9	S	19.60	4.95	4.31	68	7.15	4-8	130
			D	19.80	6.02	3.99	64	7.23	6-3	200
3	S	21.40	13.72	4.41	78	7.94	3-14	21		
	D	22.00	15.04	3.53	65	7.49	15-8	80		
22.1v	25	S	17.60	0.10	6.84	99	6.88	2-7	19	
		D	16.80	0.03	6.75	97	7.36	6-8	76	
	24	S	17.40	0.05	5.83	84	7.20	3-6	244	
		D	17.70	0.05	6.95	101	7.42	3-14	383	
	22	S	17.30	0.04	6.74	97	7.58	3-14	306	
		D	16.40	0.05	6.40	91	7.21	3-13	346	
	18a	S	16.40	0.03	6.28	89	7.63	4-12	347	
		D	17.70	0.10	6.17	89	7.32	7-16	384	
	21	S	17.40	0.06	6.05	88	7.50	13-12	333	
		D	17.60	0.05	6.07	88	7.42	5-14	365	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1950</b>									
22. iv	17	S	17.80	0.06	5.59	81	7.72	13-6	258
		D	18.00	0.05	5.37	79	7.84	7-20	312
	19	S	17.40	0.05	5.60	81	7.38	9-17	358
		D	17.70	0.07	5.65	82	7.38	6-10	310
23. vi	25	S	12.40	0.07	7.43	98	5.66	2-6	14
	26	S	12.10	0.05	8.20	108	5.72	3-6	65
	24	S	13.40	0.07	7.05	95	5.82	1-10	43
	23	S	12.40	0.05	8.09	107	5.89	0-20	93
	22	S	12.30	0.05	8.08	106	6.11	4-11	90
	21	S	12.20	0.05	7.97	105	6.35	11-7	80
		D	12.50	0.05	7.03	93	6.20	8-14	79
	20	S	15.00	0.05	6.30	87	5.75	7-18	91
	18	S	12.20	0.05	7.38	97	5.36	11-7	60
	18a	S	13.60	0.05	4.28	58	5.66	5-32	107
	17	S	12.40	0.05	7.22	95	5.84	3-15	54
		D	12.50	0.05	7.03	93	5.67	0-12	63
	19	S	13.40	0.44	5.85	79	6.60	20-24	156
		D	13.00		5.27		5.93		
17. vii	2	S	15.10	9.53	6.59	101	7.40	0	200
		D	18.30	19.32	3.82	69	7.97	16	154
	4	S	14.20	9.90	6.16	93	8.29	6	113
		D	16.70	18.15	5.59	97	8.06	5	36
	6	S	13.50	7.51	6.16	90	8.06	7-0	206
		D	15.00	11.85	5.95	94	8.00	6-6	89
	5	S	13.70	7.08	6.52	95	7.72	2-9	133
		D	14.70	11.43	5.75	90	7.99	9-3	147
	7	S	13.00	5.51	6.33	89	7.31	5-4	147
		D	13.40	6.87	6.21	90	8.30	4-11	159
	8	S	12.80	5.27	5.82	82	7.99	7	164
		D	13.80	7.83	6.16	89	7.58	7	157
	10	S	12.00	1.14	6.41	85	7.03	5	244
		D	11.60	0.84	5.88	77	6.96	0	236
	16	S	11.30	0.07	6.69	86	6.27	0-21	120
		D	11.30	0.06	6.62	85	6.43	11-5	202

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1950										
19. vii	15	S	11.40	0.05	6.92	89	6.34	9-0	220	
		D	13.20	0.05	6.80	91	6.34	6-7	217	
	14	S	11.40	0.05	6.24	81	6.49	7	179	
		D	12.80	0.05	6.54	87	6.81	4	179	
	13	S	11.40	0.05	6.76	87	6.28	5-13	179	
		D	11.30	0.06	6.67	86	6.37	4-15	168	
	12	S	11.40	0.06	6.52	84	4.26	7	111	
		D	11.40	0.06	6.69	86	6.50	7	186	
	11	S	11.50	0.06	6.32	82	6.52	4-17	170	
		D	11.40	0.06	6.00	77	6.46	5-22	235	
	9	S	12.60	1.48	6.67	90	7.01	4-10	170	
		D	12.90	2.77	6.51	89	7.31	5-2	151	
	1	S	15.10	10.43	6.09	95	8.05	7-3	79	
		D	18.90	18.09	5.56	101	8.48	6-3	19	
	3	S	14.40	2.99	6.00	85	7.03	8-31	412	
		D	17.90	14.73	1.15	20	8.04	1-40	192	
	21. vii	25	S	11.90	0.04	10.84	142	7.14	4	5
			D	11.60	0.04	10.81	140	7.42	6	72
24		S	12.30	0.04	8.85	116	7.36	6	104	
		D	12.90	0.05	9.50	127	7.53	7	229	
23		S	12.80	0.04	8.51	113	7.60	7	219	
		D	12.70	0.04	7.98	106	7.47	7	199	
20		S	12.70	0.04	8.03	106	7.36	10	207	
		D	13.20	0.05	8.79	118	7.21	10-27	183	
18		S	16.40	0.04	8.50	121	7.20	6-27	301	
		D	15.90	0.04	7.93	112	6.99	6-22	165	
17		S	13.20	0.04	8.54	114	7.16	8-66	207	
		D	13.10	0.04	9.02	121	7.19	13-1	224	
19	S	13.20	0.04	8.67	116	7.25	10-29	209		
	D	13.30	0.04	7.60	102	7.15	12-0	239		
14. viii	4a	S	16.60	18.23	6.83	119	8.23	2-4	6	
		D	16.40	18.40	5.76	100	8.23	10-17	7	
	1	S	16.40	18.53	6.58	115	8.17	4-9	6	
		D	16.20	18.99	6.58	115	8.14	8-7	13	
	6	S	15.10		5.77		7.84	7-11	18	
		D	14.70	14.83	4.67	75	8.11	10-58	126	

Location: **HAWKESBURY RIVER**

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1950</b>									
<b>14. viii</b>	5	S	15.00	10.50	6.41	99	7.84	11-9	72
		D	15.30	18.05	6.55	111	8.07	9-0	19
	7	S	14.60	9.09	5.99	91	7.68	4-15	83
		D	14.90	11.03	7.25	113	7.84	10-23	82
	8	S	14.20	7.79	7.65	113		8	110
		D	13.80	14.86	5.75	92	7.95	5	92
	9	S	13.70	5.82	6.90	99	7.37	6-7	127
		D	13.10	6.64	3.40	49	7.80	6-39	114
	10	S	13.60	3.81	7.15	100	7.55	4	149
		D	14.30	4.87	6.66	96	7.44	6	138
<b>16. viii</b>	11	S	11.90	0.69	8.22	108	6.87	7-10	162
		D	13.70	1.41	7.98	109	6.95	7-26	174
	12	S	11.70	0.06	8.11	106	6.39	9	182
		D	15.50	0.06	7.62	107	6.37	4	185
	13	S	11.60	0.06	8.48	111	6.41	5-17	224
		D	12.70	0.06	7.54	101	6.51	8-3	213
	14	S	11.40	0.06	9.02	117	6.54	4	194
		D	12.20	0.06	7.23	95	6.33	3	190
	15	S	11.40	0.06	7.39	96	6.47	4-16	216
		D	12.50	0.06	8.01	107	6.40	3-31	216
	16	S	11.80	0.06	7.45	98	6.53	3-11	219
		D	12.10	0.06	5.91	78	6.46	6-36	287
	4	S	16.20	15.07	6.68	112	8.03	3	16
		D	16.70	17.76	6.67	115	8.26	10	53
	2	S	16.30	14.46	7.47	124	8.42	2	2
		D	17.20	18.71	3.75	66	7.97	22	89
	3	S	16.50	12.87	6.31	103	8.17	6	61
		D	17.80	17.96	0.51	9	8.06	16	74
<b>18. viii</b>	25	S	11.70	0.04	6.99	91	7.48	4-4	16
		S	11.60	0.07	7.21	94	7.57	4-6	169
	24	S	11.80	0.07	7.13	93	7.49	3-5	229
	23	S	11.60	0.06	7.92	103	7.50	5-11	269
	22	S	12.30	0.05	7.86	103	7.61	7-4	258
	21	S	12.80	0.05	7.45	99	7.54	7-6	261
		D	12.70	0.05	6.64	88	7.37	7-9	289
	20	S	12.70	0.06	7.00	93	7.82	6-8	304
	18	S	13.00	0.06	7.16	96	7.49	4-12	269
	18a	S	13.30	0.06	7.16	96	7.43	2-16	406

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1950</b>									
18. viii	17	S	12.80	0.07	7.07	94	7.57	3-13	264
		D	12.60	0.06	7.28	96	7.58	5-6	246
	19	S	12.60	0.06	7.17	95	7.53	4-10	272
		D	12.50	0.06	7.14	94	7.48	4-14	267
15. ix	25	S	13.60	0.05	6.76	91	5.52	5-5	205
	26	S	13.90	0.06	6.75	92	5.99	4-16	871
	24	S	14.70	0.13	6.17	85	6.54	6-46	576
	23	S	15.80	0.09	5.90	83	6.54	5-46	480
	22	S	15.20	0.09	6.27	87	6.32	4-17	477
	21	S	15.60	0.09	6.55	92	6.28	5-37	430
		D	15.50	0.08	6.51	91	6.31	7-49	450
20	S	15.40	0.09	5.85	82	6.26	13-55	515	
16. ix	18 <sub>a</sub>	S	14.60	0.05	6.73	92	6.31	5-9	617
	18	S	15.30	0.07	6.38	89	6.26	1-8	621
	17	S	15.80	0.10	5.41	76	6.38	6-16	378
		D	15.70	0.10	5.37	75	6.35	6-33	477
	19	S	16.10	0.10	5.58	79	6.34	3-30	327
18. ix	2	S	19.70	14.31	7.63	134	8.24	5	41
		D	16.90	18.90	5.01	89	8.02	19	81
	4	S	18.30	15.64	6.45	114	8.08	9	33
		D	17.20	18.64	5.55	101	8.06	18	57
	6	S	18.80	14.07	7.96	137	7.91	6-3	36
		D	17.30	18.17	6.59	116	8.14	10-0	69
	5	S	18.30	13.05	7.76	131	8.12	5-0	58
		D	17.20	18.32	5.50	97	8.10	11-7	72
	7	S	18.40	13.42	7.35	125	7.97	7-3	45
		D	17.40	16.20	6.36	110	8.11	8-4	29
	8	S	18.50	12.43	5.01	84	8.08	7	55
		D	17.80	15.78	4.52	78	7.93	9	51
	9	S	17.80	4.97	6.92	106	8.04	5-1	181
D		17.60	8.53	6.63	105	8.05	10-0	155	
10	S	18.30	6.67	7.16	113	8.12	5	225	
	D	18.30	7.39	5.80	92	7.95	8	277	
20. ix	16	S	16.40	0.38	5.93	84	8.05	8-9	341
		D	14.80	0.11	5.76	79	7.65	4-8	363

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1950										
20. ix	15	S	16.30	0.14	6.31	90	8.00	6-11	355	
		D	14.90	0.12	5.85	81	7.81	7-5	355	
	14	S	16.40	0.14	6.19	88	7.53	7	441	
		D	16.30	0.12	6.38	91	7.61	5	416	
	13	S	16.80	0.10	7.31	105	8.11	4-3	496	
		D	16.80	0.10	8.18	117	7.95	3-5	406	
	12	S	17.20	0.58	8.44	122	8.13	3	439	
		D	17.20	1.58	7.96	119	7.65	7	396	
	11	S	17.30	3.50	8.86	133	7.59	4-1	380	
		D	17.50	11.65	6.17	101	7.88	3-4	161	
	1	S	17.50	14.90	7.36	125	8.15	4-2	22	
		D	17.00	19.51	7.77	138	8.13	11-5	32	
	4a	S	17.70	17.56	8.59	151	8.22	6-1	8	
		D	17.50	18.07	7.50	132	8.24	6-0	3	
	3	S	18.80	16.25	9.17	162	8.22	9-8	1	
		D	17.90	18.51	3.05	54	7.87	9-8	23	
	13. xi	4a	S	19.70	18.98	5.31	98	8.10	8-3	8
			D	20.10	19.04	5.56	102	8.06	9-5	27
1		S	21.50	18.88	5.37	102	8.10	4-7	4	
		D	18.10	19.44	4.37	79	8.08	13-9	84	
6		S	21.90	15.33	4.68	86	7.92	9-9	40	
		D	21.80	15.50	4.63	85	7.95	10-9	23	
5		S	23.40	14.42	5.18	97	7.91	4-10	7	
		D	21.10	15.95	4.65	85	7.95	10-12	32	
7		S	22.10	14.04	4.66	85	7.92	4-11	21	
		D	21.90	14.21	4.46	81	7.84	13-1	24	
8		S	22.60	12.39	4.80	87	7.85	2	30	
		D	22.40	12.54	4.04	73	7.76	10	43	
9		S	22.90	9.83	5.46	96	7.77	5-4	41	
		D	22.60	9.67	5.06	89	7.84	1-15	12	
10		S	22.40	7.97	5.07	87	7.32	6	55	
		D	22.40	7.87	4.99	86	7.46	6	64	
16		S	22.60	0.09	4.83	77	8.14	8-6	358	
		D	22.50	0.05	5.33	85	7.45	2-14	386	
15		S	22.70	0.05	5.46	87	7.51	8-6	418	
		D	22.50	0.05	5.22	83	7.61	2-13	441	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
13. xi	14	S	22.70	0.05	5.41	86	7.71	5	464
		D	22.30	0.05	5.28	84	7.51	7	464
	13	S	22.90	0.07	4.97	79	7.89	5-16	128
		D	22.20	0.33	4.86	77	7.83	8-6	57
15. xi	12	S	22.50	0.29	4.85	77	7.82	8	74
		D	22.20	3.29	4.64	74	7.39	8	174
	11	S	22.70	5.04	4.98	83	7.86	2-9	128
		D	22.40	6.46	4.68	79	7.83	7-3	74
	4	S	21.40	16.66	5.54	101	8.08	1	130
		D	17.90	19.19	4.32	78	8.16	18	179
	2	S	23.00	16.73	5.95	113	8.11	2	3
		D	18.10	18.63	0.76	14	7.80	29	42
	3	S	23.60	17.00	5.57	108	8.05	5-17	93
		D	19.30	17.59	3.45	62	7.98	12-0	3
17. xi	25	S	17.80	0.04	6.76	99	6.96	0-7	4
		S	16.50	0.05	6.33	90	6.96	7-17	161
	24	S	19.75	0.07	5.25	79	7.03	5-8	183
	23	S	17.80	0.05	6.21	94	6.82	12-15	138
	22	S	17.30	0.05	6.13	91	6.80	5-24	142
	21	S	18.00	0.05	5.90	86	6.84	4-25	138
		D	18.20	0.05	6.04	89	6.80	3-29	88
	20	S	18.00	0.05	5.69	83	6.96	12-22	
	18	S	17.70	0.05	6.12	92	6.77	4-16	83
	18a	S	16.60	0.04	6.53	93	7.63	11-3	72
	17	S	21.20	0.05	4.52	70	6.77	12-19	259
		D	19.00	0.05	4.97	74	7.08	0-28	171
	19	S	19.00	0.05	4.86	72	6.99	12-18	188
		D	18.90	0.05	5.08	76	6.80	3-26	202