

OCEANOGRAPHICAL STATION LIST

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

Volume 13

Analysis of Bottom Deposits in
Eastern and South-western Australia, 1951
and Records of Twenty-four Hourly
Hydrological Observations at Selected Stations in
Eastern Australian Estuarine Systems, 1951

Compiled by D. J. Rochford

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
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ANALYSIS OF BOTTOM DEPOSITS IN EASTERN AND SOUTH-WESTERN
AUSTRALIA, 1951

AND

RECORDS OF TWENTY-FOUR HOURLY HYDROLOGICAL OBSERVATIONS AT
SELECTED STATIONS IN EASTERN AUSTRALIAN ESTUARINE SYSTEMS, 1951

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I. INTRODUCTION

In this volume the results of analyses of bottom deposits in estuarine systems of eastern and south-western Australia during 1951 are given.

In addition, the results are given of twenty-four hourly observations at certain stations in eastern Australia.

II. METHODS

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

III. UNITS

Units are those used by Rochford (1951).

IV. LOCATION OF STATIONS

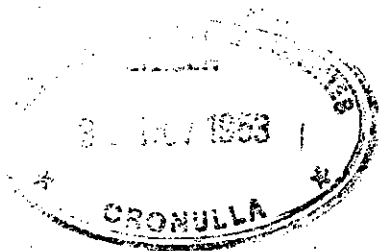
The locations of the stations are the same as those given in previous volumes.

V. PERSONNEL

The laboratory analyses of the data have been the responsibility of Mr. R. Spencer, Mr. A. Middleton, and the hydrology staff at Cronulla and Perth. Messrs. C. Brown, G. Kitchen, R. Pickup, and C. Wirrell were responsible for the field collecting.

VI. REFERENCES

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



Location: FITZROY RIVER

Date	Station	Int. P.	Adv. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
17- 18.vi	1	12	29	550	38.0	8	0.5	67
	2	18	67		36.5	10	0.6	98
	4	1	63		27.5	6	0.5	42
	6	5	161	710	54.0	8	0.8	53
	8	0.4	61	730	44.0	8	0.8	7
	10	2	108	640	39.0	15	1.0	87
16- 17.x	4	0	84	370	43.0	18	0.8	30
	6	3	146	680	40.5	8	0.7	55
	8	6	80	660	44.0	7	0.8	77
	10	10	90	590	38.0	11	1.0	91
1951								
8- 9.i	1	6	35	360	32.0	5	0.5	32
	2	3	90	610	42.0	7	0.8	17
	4	5	91	440	39.0	6	0.7	75
	6	4	118	620	39.5	9	1.1	86
	10	7	107	630	38.5	8	0.9	57
24- 26.iv	1	6	38	320	26.0	5	0.6	35
	2	20	86	440	40.0	11	0.9	94
	4	3	68	480	38.0	7	0.8	58
	6	0.4	130	520	42.0	6	0.7	12
	8	2	44	380	37.0	6	0.9	63
	10	1	68	380	30.5	6	0.7	58
25- 26.vii	1	16	74	566	52.6	9	1.6	100
	2	1	2	511	13.3	16	0.4	3
	4	0	59	597	38.5	12	0.8	4
	6	8	92	552	41.0	9	1.2	94
	8	2	64	640	36.2	8	0.8	48
	10	4	93	454	36.2	11	1.1	75
30.x	1	14	0	461	30.3	5	1.3	60
	4	16	103	443	41.5	15	1.0	93
	6	31	56	680	47.1	9	1.2	94
	8	30	9	617	39.7	6	1.6	74
	10	7	84	524	36.7	7	1.0	79

Location: MARY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	%o Silt
1950								
20-	2	1	98	360	73.5	29	1.3	18
21. vi	4	8	197		39.5	19	1.7	97
	6	4	283		61.5	22	2.0	49
	8	1	156	950	47.0	16	1.7	98
	10	1	129	650	32.5	29	2.3	24
1951								
10-	2	1	74	460	45.0	24	1.1	24
11. x	4	9	145	650	46.0	18	1.2	90
	6	5	167	620	46.5	19	1.7	93
	8	6	181	740	51.0	20	1.7	94
1951								
4-	2	0.4	89	510	32.5	14	1.1	3
5. i	4	3	128	535	40.0	11	1.2	91
	6	1	290	900	53.0	9	1.8	7
	8	0	120	385	23.6	10	1.0	96
1951								
1-	2	1	68	340	36.0	20	1.2	6
4. v	4	0.3	97	500	33.0	14	1.2	3
	6	2	158	460	40.0	15	1.3	39
	8	3	130	510	45.5	16	2.0	99
	10	0.4	235	2050	37.0	4	1.0	2

Location: GLADSTONE HARBOUR

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Sitc
1950								
15-	3	0	98	710	25.5	12	0.4	4
19.vi	4	11	43	430	43.0	15	1.0	89
	5	11	54		34.0	16	0.8	84
	7	10	62		54.0	17	1.6	88
13-	3	15	59	500	44.5	19	1.2	69
18.x	4	18	41	350	33.5	15	0.8	80
	5	16	55	300	40.5	14	0.5	98
	7	13	79	570	46.0	18	1.4	95
1951								
7.1	3	12	61	490	40.0	6	0.4	65
	4	10	30	320	32.5	14	0.6	86
	5	5	52	440	22.0	8	0.6	49
15.1	7	4	83	595	34.0	15	1.4	70
28.iv	3	7	14	220	22.0	8	0.6	50
	4	14	64	410	35.0	14	1.1	96
	5	3	22	260	35.0	15	1.0	28
	7	7	51	410	35.5	14	1.5	81
27-	1	5	13	489	10.1	14	0.4	24
28.vii	3	6	26	477	35.2	14	1.1	29
	4	1	29	438	39.4	12	0.7	10
	5	3	44	400	43.6	14	2.0	26
	7	11	50	613	44.7	17	1.5	88
2-	3	20	0	531	29.0	8	1.1	63
3.xi	4	4	10	590	34.0	14	1.3	18
	5	8	38	572	27.9	9	1.2	50
	7	8	72	544	38.6	13	1.5	70

Location: SANDY ISLAND STRAITS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe .	Org. C.	Total N.	% Site
1950								
20-	1	0.3	0	800	14.0	14	0.6	2
21. vi	2	0	59	630	36.5	24	1.6	13
	4	0.5	32		30.5	25	1.3	16
	6	1	51	410	23.5	32	2.6	7
	8	1	53	600	33.5	39	3.3	17
10-								
11. x	1	1	78	820	28.0	21	1.3	7
	2	2	51	520	40.0	11	1.0	7
	4	2	24	370	41.5	25	1.2	15
	6		76	720	31.0	33	2.7	
	8	1	36	480	33.5	36	2.3	15
1951								
4. i	1	0.2	35	715	25.2	21	1.3	0.5
	2	3	39	580	28.8	24	1.6	10
	4	2	49	545	36.2	23	1.6	11
	6	1	62	390	23.5	27	2.6	6
	8	2	56	580	27.2	29	2.7	6
1-								
2. v	1	0.3	22	470	30.0	15	1.4	1
	2	1	37	255	15.5	16	1.1	3
	4	2	27	210	35.5	20	1.1	14
	6	1	51	255	25.5	36	2.5	17
	8	2	39	350	31.5	24	2.6	13

Location: NERANG AND COOMERA RIVERS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951 6.11	4	1	83	440	39.0	3	0.4	21
11.v	3	6	162	620	37.0	32	2.7	56
24.x	4	0.1	144	708	63.9	1	0.9	3

Location: MORETON BAY - BRISBANE RIVER

Date	Station	Int. P.	Adj. P.	Total P.	Total Fe	Org. C.	Total N.	% Silic
1951 6.ii	1	11	122	750	43.5	25	2.6	97
17.iv	1	0.4	87	610	43.5	30	1.9	11
5.vi	2a	1	0	810	14.5	15	1.3	2
	5	23	177	1040	73.0	16	1.9	96
2- 4.vii	1	2	100	690	43.0	23	2.4	22
	2a	0.3	0	520	0	9	0.6	1
	5	18	198	1110	60.0	17	1.8	98
6.viii	5	9	127	904	55.1	18	1.9	89
27- 31.viii	1	12	144	715	40.9	29	2.4	34
	3	14	81	795	43.8	19	1.5	15
	5	43	243	1000	48.4	23	2.4	95
24.x	1	2	87	1321	36.3	25	2.4	29

Location: MORETON BAY - LOGAN RIVER

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
1. ii	1	1	48	650	21.0	19		3
	2	1	70	570	12.5	15	0.9	1
	4	0.2	146	870	47.0	16	1.1	0.5
	5	2	91	700	46.0	16	1.3	37
6. ii	8	2	275	1250	46.5	10	1.1	12
2- 3. iii	4	1	68	770	35.5	19	1.2	8
	5	3	190	1000	47.0	17	1.5	70
	6a	3	100	1170	56.0	13	1.3	47
	7	3	152	870	41.5	13	1.3	91
4- 5. iv	4	3	74	850	39.5	16	1.7	18
	5	8	138	1250	46.0	14	1.5	76
	6a	1	101	1060	51.5	17	1.6	12
	7a	1	75	1190	53.5	11	1.2	10
8- 11. v	4	1	18	380	47.5	21	1.3	10
	5	1	208	435	28.0	9	0.9	11
	8	7	185	950	58.0	20	1.9	94
6. vi	8	7	155	1130	66.5	16	1.9	99
29. vi	1	1	55	920	0	0	0	1
2. vii	2	4	0	650	0	0	0	3
	4	1	30	660	64.0	17	1.6	14
	5	4	136	940	65.0	19	1.4	89
17- 19. vii	1	1	15	2310	0	45	1.8	1
	2	1	0	1444	0	19	1.1	1
	4	0.5	24	909	23.7	22	1.3	3
	5	5	60	761	27.5	19	1.5	76
16- 17. viii	4	0.5	52	832	36.2	15	1.4	3
	5	3	88	1134	48.3	15	1.3	14
	6	10	125	1076	55.6	19	1.6	60
	6a	23	338	1158	50.8	25	1.4	65
	7a	0.5	136	1117	48.6	23	1.7	0.5

Location: MORETON BAY - LOGAN RIVER

Date	Station	Inc. P.	Ada. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
12-	3	33	65	1010	56.6	21	2.7	47
13. ix	5	25	221	1319	45.6	23	1.7	82
	8	20	235	845	57.5	16	2.4	97
	9	18	369	1534	58.6	13	2.3	97
11. x	2	2	333	917	5.6	58	1.9	1
15-	4	1	172	962	43.6	15	1.7	1
16. x	5	87	190	1203	52.7	18	1.8	79
	8	21	190	804	56.1	16	1.7	94
19-	4	6	109	910	45.0	12	1.6	41
22. xi	6	16	153	567	48.8	13	1.6	93
	6a	16	214	671	52.3	22	1.8	96
	7a	1	0	509	18.5	31	1.3	2
13. xii	4	3	105	695	46.1	18	1.2	10
	5	10	144	796	57.4	13	1.1	73

Location: MORETON ISLAND LAGOON

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951 3. iv	1	7	415	3160	21.0	158	21.4	2
	2	1	83	2150	14.0	25	6.8	0.5
16. iv	1	1	188	2600	0	56	6.6	1
	2	1	225	6250	0	0	4.4	1
26. iv	1	0.3	410	2700	0	193	23.1	0.5
	2	10	260	4550	0	75	8.7	2
24. v	1	2	148	1870	18.5	75	8.7	2
26. v	1	28	95	1820	8.0	159	21.3	14
	2	30	107	2000	14.0	175	21.9	16
12. vi	1	1	0	1750	19.0	127	16.6	0.5
	2	7	147	1500	9.0	118	14.4	7
29. vi	1	18	115	2200	31.5	84	12.0	21
	2	2	27	1340	23.5	169	26.2	0.5
19. vii	1	3	27	2220	0	136	25.2	5
	2	4	170	2424	17.4	143	18.3	3
7. viii	1	5	205	2110	12.0	159	15.0	4
	2	33	56	2795	11.4	160	17.5	14
21. viii	1	8	134	1942	12.1	174	16.5	8
	2	113	206	1792	13.5	172	15.9	7
26. ix	1	1	190	1625	14.6	194		0.5
	2	3	0	2909	0	199		0.5
11. x	1	6	110	1831	13.4	158	17.6	7
	2	10	0	1829	12.5	123	12.0	8
14. xi	1	6	16	2816	14.5	118	12.1	7
	2	1	0	2572	7.1	59	6.9	0.5

Location: MORETON ISLAND LAGOON

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
26. xi	1	0.3	89	1580	14.0	174	17.5	0.5
	2	2	266	1536	21.4	177	20.3	9
20. xi	1	12	167	1153	13.9	171		14
	2	0.4	189	1015	8.8	137		0.5

Location: **DUNWICH OYSTER LEASE**

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
22.i	1 S	11	85	750	28.5	36	2.7	72
5.iii	1 S	0.5	12	225	5.0	39	2.9	6
2.iv	1 S	2	21	825	20.5	27	2.5	7
27.iv	1 S	1	27	770	17.5	40	3.2	3
21.v	1 S	1	35	730	28.0	23	2.1	6
22.vi	1 S	4	34	830	24.5	26	3.7	5
	1 D	3	53	660	19.0	18	1.8	4
20.vii	1 S	2	20	946	22.6	36	2.7	5
	1 D	1	0	642	19.9	5	1.8	3
24.viii	1 S	2	12	454	17.8	34	2.0	4
	1 D	1	8	309	20.7	26	1.3	4
9.x	1 S	4	54	597	20.8	31	2.6	6
	1 D	1	35	529	24.1	20	2.0	4
4.xi	1 S	1	103	714	31.3	24	3.1	4
	1 D	1	0	368	25.5	23	1.8	5

Location: SOUTH DUNWICH OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silc
1951								
30.i	1 S	1	77	850	33.5	35	3.2	12
2.iii	1 S	0.3	61	890	20.5	29	2.8	2
3.iv	1 S	1	63	860	25.5	27	3.0	4
3.v	1 S	1	110	1250	32.5	16	2.1	1
21.v	1 S	1	74	750	40.0	31	3.4	13
22.vi	1 S	7	71	770	36.0	33	3.6	7
	1 D	2	69	590	39.0	32	2.8	9
20.vii	1 S	2	8	1208	25.0	40	3.1	3
	1 D	1	20	607	42.3	35	3.0	7
24.viii	1 S	1	144	648	33.6	35	3.5	6
	1 D	1	86	526	38.8	41	2.9	9
9.x	1 S	4	229	1469	38.6	50	4.6	8
	1 D	2	180	640	37.0	42	2.7	14
24.xi	1 S	2	168	1125	27.1	28	4.7	3
	1 D	0.3	72	570	45.5	35	3.3	5
24.xii	1 S	0.1	69	586	22.4	32	2.1	0.5
	1 D	1	39	338	44.6	39	3.3	6

Location: GALOONDRA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silc
1951 31. viii	1	3	114	750	52.9	84	4.9	13

Location: MACLEAY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
18-	2	0	108	305	34.0	17	1.2	74
19.i	6	0	76	230	39.0	17	1.4	59
	7	0	105	415	17.5	15	0.4	5
21.ii	6	0	65	380	31.3	22	1.7	57
	7	22	0	920	53.0	42	2.4	18
30-								
31.iii	2	38	33	645	38.0	15	1.6	78
	6	2	53	445	21.8	11	0.8	37
	7	1	138	540	31.6	0	0.2	7
26.iv	2	3	122	720	23.5	16	1.7	54
	6	6	145	865	26.5	18	1.8	21
	7	0	154	800	33.0	14	2.0	3
25.v	6	0	65	520	32.0	33	3.1	87
	7	2	54	590	31.8	19	1.7	16
21.vi	6	3	89	550	13.8	12	1.2	57
	7	0	82	490	43.5	17	1.6	2
27.viii	2	2	157	790	38.5	20	1.6	26
	6	3	126	670	32.5	19	1.5	44
	7	0.1	91	670	38.8	16	1.2	1
19-	2	23	90	580	37.5	19	1.5	52
20.x	6	0	167	600	36.2	17	1.0	18
	7		57	710	26.8	40	0.6	
17.xi	2	5	149	535	22.0	21	1.5	71
	6	1	47	840	29.5	22	1.9	14
	7	0.3	47	690	22.2	26	2.1	3

Location: MANNING RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
16.i	1	0.5	16	390	9.2	12	1.0	0.5
	6	0	96	615	60.0	16	0.8	1
20.ii	1	6	38	610	30.0	31	2.0	16
	6	2	110	450	35.0	29	1.6	14
	9	4	30	615	40.0	32	2.1	15
28- 29.iii	1	2	120	970	19.4	21	2.4	4
	6	0.4	136	530	37.0	8	1.9	3
	9	0	202	880	40.0	14	2.1	3
25.iv	1	0.2	36	950	26.5	40	5.2	1
	6	0	130	635	35.0	12	0.8	0.5
	9	0.5	190	900	33.4	31	3.1	0.5
23.v	1	7	0	1100	39.2	55	4.8	6
	6	1	119	540	40.8	12	0.7	3
	9	0.5	216	765	41.2	33	2.6	3
20.vi	1		12	870	12.6	27		
	6	0	155	675	22.0	29	2.4	50
	9	0	165	860	28.0	23	1.8	2
24.viii	1		31	840	16.4	28	2.8	
	6	0	152	950	38.8	22	0.5	
	9	0	117	940	54.0	25	2.2	17
17- 18.x	1	0.5	18	870	22.0	30	4.2	1
	6	0.4	108	700	40.8	33	2.3	4
	9	0	74	890	45.5	34	2.6	0.5
15.xi	1	1	0	1160	19.5	49	3.3	5
	6	0.4	74	650	25.8	19	2.4	2
	9	0.1	88	860	28.0	39	3.3	0.5

Location: TILGERRY CREEK - PORT STEPHENS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951 3.ii	1	0.5	88	508	26.4	31	2.6	21
	1a	4	150	600	26.8	36	2.6	11
	1b	175	960	2900	72.0	67	6.1	25
	2	0	75	610	45.0	27	2.6	19
27.ii	1	2	63	575	33.5	36	2.6	26
	1a	2	123	505	12.2	32	2.8	15
	1b	11	238	815	26.8	38	2.6	13
	2	1	72	920	61.5	43	3.5	4
21.iii	1	4	51	420	27.0	24	1.4	20
	1a	45	180	700	45.0	29	2.7	12
	1b	16	267	880	20.6	28	2.1	9
	2	7	187	640	24.5	24	2.3	21
19.iv	1	2	95	490	22.2	36	2.8	14
	1a	7	268	735	26.8	38	3.1	17
	1b	23	438	1150	17.5	38	3.2	15
	2	3	110	750	30.0	53	3.6	27
26.vi	1	17	40	705	29.4	35	3.3	17
	1a	1	79	1110	26.6	49	3.1	15
	1b	3	138	730	23.0	71	2.3	13
	2	3	133	715	44.5	23	1.3	38
25.vii	1	0	132	500	26.0	31	2.4	10
	1a	33	192	525	18.1	36	2.4	28
	1b	4	340	495	18.3	30	2.7	18
	2		82	750	48.0	45	3.5	
24.viii	1	0	57	510	26.5	32	2.4	9
	1a	1	67	580	29.5	30	3.0	12
	1b	16	218	1020	23.8	32	2.7	14
	2	0	204	1380	75.0	55	5.3	14
25.ix	1	1	84	445	21.5	38	3.0	7
	1a	10	385	1110	33.5	36	2.6	8
	1b	26	355	1520	16.2	34	2.3	9
	2		143	930	32.5	52	3.6	

Location: TILIGERRY CREEK - PORT STEPHENS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
30. xi	1	2	99	535	19.5	31	2.4	14
	1a	5	398	890	24.5	35	2.9	9
	1b	7	171	1180	19.5	32	2.2	9
	2	1	185	950	43.5	51	3.4	17
13. xi	1	1	87	1030	28.5	30	2.5	8
	1a	0	3	1030	19.5	35	2.5	17
	1b	9	85	780	15.0	28	2.1	12
	2	2	200	970	50.0	54	4.2	16

Location: HAWKESBURY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
23-	1	3	27	440	11.0	24	1.3	5
24.i	3	1	147	1090	12.8	42	3.3	0.5
	6	9	30	510	35.0	19	1.3	20
	8	5	88	390	29.5	25	1.8	48
	9	6	108	490	14.5	22	1.4	90
	11	5	118	275	33.0	22	1.1	72
	15	3	86	245	24.5	20	1.6	72
26.i	21	2	97	758	31.9	31	1.5	34
15.iii	21	0.3	154	714	30.0	46	4.0	26
16-	1	2	38	440	17.8	40	1.3	12
19.iv	3	93	105	970	50.8	63	2.4	70
	6	0.1	33	485	29.0	37	1.1	0.5
	8	27	74	780	57.0	50	2.2	93
	9	13	160	430	24.2	26	1.2	90
	11	17	84	580	33.0	28	1.5	84
	15	14	62	545	42.5	29	1.6	61
20.iv	21	1	83	1460	35.4	24	1.8	26
24.v	21	2	134	653	36.3	21	1.4	42
23-	1		175	820	28.8	47	2.0	
24.v	3	4	17	195	8.1	34	0.4	88
	6	3	141	665	34.4	27	1.2	94
	8	10	142	660	40.0	42	2.3	94
	9	12	140	680	37.2	23	1.6	87
	11	6	116	550	38.0	7	0.9	87
	15	4	117	565	28.0	33	1.5	45
15.vi	21	0	103	703	17.7	25	2.6	34
26.vi	1	36	166	915	27.5	45	2.3	66
	6	2	150	745	38.2	30	1.9	56
	8	5	95	700	35.5	35	2.1	84
	9	17	140	920	36.8	24	1.8	96
	11	25	97	775	33.4	25	1.6	95
	15	0	102	690	32.5	31	2.0	78

Location: HAWKESBURY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951 13. vii	21	0.2	72	740	37.4	18	1.2	0.5
17- 19. vii	3	6	278	1000	24.5	41	2.2	70
	6	3	155	770	32.5	28	1.5	54
	8	1	61	640	26.6	28	1.2	10
	9	0	136	715	29.0	26	1.7	64
	11	0.4	62	640	35.0	23	1.7	12
	15	2	148	650	33.3	30	2.0	36
16. viii	21	0	135	1060	32.5	29	1.0	
22. viii	1	0.1	5	450	14.3	13	0.5	3
	3	11	165	970	32.5	51	2.3	63
	6	0.4	63	600	34.0	33	1.7	5
	8	1	82	540	33.2	40	1.8	60
	9	6	80	430	39.6	26	1.6	77
	11	1	110	370	37.6	26	1.7	19
	15	1	113	425	39.0	40	2.4	27
13. ix	21	2	92	603	28.8	26	1.1	32
25. ix	1		15	120	2.1	4	0.6	
	3	10	266	870	35.5	52	2.3	66
	6	13	169	950	31.2	62	4.4	82
	8	8	137	700	26.0	33	2.0	77
	9	4	100	675	34.5	30	1.9	71
	11	4	149	860	98.0	40	2.3	27
	15		107	690	30.2	10	1.0	
16. xi	21	0.5	106	625	23.0	30	1.0	6
27- 28. xi	3	72	35	770	19.2	47	2.8	40
	6	6	153	675	33.8	27	1.4	73
	8	0	98	665	31.2	40	1.5	87
	9	2	109	680	31.5	31	1.4	30
	11	5	117	620	25.8	31	1.5	78
	15	6	145	775	42.9	34	2.3	80

Location: HAWKESBURY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
13. xii	21	0.3	106	590	33.5	25	1.8	9
18. xii	1	9	80	350	18.5	32	1.7	48
	3	10	190	725	18.5	44	3.2	63
	6	14	107	615	30.0	27	1.6	60
	8	8	95	610	27.5	30	1.8	70
	9	0	107	550	32.5	26	1.8	88
	11	0	133	590	39.5	32	1.8	91
	15	0.4	83	530	33.2	30	1.7	6

Location: GEORGES RIVER - BOTANY BAY

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
10-	1	1	202	725	6.6	52	3.5	5
12.i	11	0	112	450	26.0	29	2.2	8
12.iii	1			335	5.1	32	1.9	3
13.iii	11	0.5	155	740	50.0	25	2.1	5
14.iii	21	1	84	540	43.0	63	4.5	7.5
9.iv	1	0.5	76	395	5.5	29	1.4	4
10.iv	11	9	62	655	44.5	31	1.4	41
14.v	21	0.5	20	530	18.7	52	3.6	12
17.v	1	0.5	180	750	5.5	48	1.8	2.5
18.v	11	0.4	10	515	18.0	38	1.5	3
13-	1	2	105	590	8.0	50	4.6	7
14.vi	11	2	112	625	16.3	19	2.3	27
	21	2	56	575	20.0	75	4.2	5
12-	1		121	430	4.0		0.9	
13.vii	11	2	128	815	34.2	27	2.2	14
	21	4	144	440	25.8	14	1.2	28
14-	1	1	70			25	1.9	5
16.viii	11	0	44	340	69.0	6	0.3	
	21	0	108	575	43.5	33	2.2	12
10-	1	1	88	545	5.8	28	3.4	3
13.ix	11	3	189	910	43.8	32	2.1	30
	21	0	44	460	34.0	15	1.1	8
9-	1		95	410	9.8	13	0.9	
10.x	11	0.1	184	910	36.8	28	2.6	1

Location: GEORGES RIVER - BOTANY BAY

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
11.x	21	1	68	375	35.8	15	3.2	14
12.xi	21	0	107	625	37.8	29	1.6	13
15.xi	1	0.5	86	690	3.6	28	2.7	2
	11	0.4	10	475	17.0	17	1.2	7
6.xii	21	1	120	604	42.4	22	1.5	4
12.xii	1	1	107	755	11.5	22	2.3	9

Location: SHELL POINT - GEORGES RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
25.1	2 S	2	90	460	23.7	24	2.6	18
	2 D	2	114	1030	9.7	90	6.5	15
	7 S	4	198	845	30.6	49	4.2	21
	7 D	2	140	760	34.6	50	4.4	19
	10 S	0.3	91	595	32.4	64	3.5	10
	11 S	3	81	1048	36.4	43	4.1	16
	11 D	3	9	525	27.5	42	2.3	33
	12 S	5	0	520	25.2	44	2.5	33
	12 D	4	134	805	30.5	50	4.2	56
28.iii	2 S	5	125	840	23.0	33	2.8	24
	2 D	9	87	680	39.0	53	4.1	21
	7 S	10	167	810	27.0	39	3.6	50
	7 D	5	61	855	30.0	66	4.2	20
	10 S	5	27	775	35.0	47	3.3	34
	11 S	20	16	1300	36.5	41	3.5	35
	11 D	12	307	1450	41.8	40	2.4	32
	12 S	8	177	1170	35.0	46	4.0	32
	12 D	2	8	800	29.4	65	2.8	35
16.v	2 S	0	197	710	30.6	51	4.0	75
	2 D	4	85	645	27.2	42	3.6	26
	7 S	0	195	770	25.2	52	3.6	26
	7 D	6	66	610	26.5	58	4.1	16
	10 S	13	20	850	22.0	49	3.4	29
	11 S	7	46	1200	32.4	53	4.4	16
	11 D	20	11	940	32.0	59	3.2	29
	12 S	0	117	800	23.5	38	3.6	20
	12 D	4	50	670	33.4	55	2.9	21
12.vii	2 S	7	95	890	25.2	48	3.4	43
	2 D	4	105	1050	52.5	77	5.0	24
	7 S	8	135	1030	19.5	45	3.5	26
	7 D	2	114	510	22.6	46	4.2	17
	10 S	4	3	860	27.8		3.5	18
	11 S	9	46	1010	33.4	48	4.0	16
	11 D	12	0	760	29.0	52	3.4	30
	12 S	7	87	810	27.5	53	4.5	31
	12 D	27	49	1040	31.5	49	3.1	27

Location: SHELL POINT - GEORGES RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951 16.viii	2 S		176	850	40.0	53	4.4	
	2 D	1	76	780	37.5	61	3.5	14
	7 S	10	290	1140	27.8	49	4.3	20
	7 D	1	70	655	25.0	67	4.3	7
	10 S	2	3	940	29.5	41	3.6	10
	11 S		162	1140	30.0	45	4.0	
	11 D	5	5	595	41.2	51		26
	12 S	3	150	720	34.5	51	4.3	26
	12 D	6	13	760	37.0	50	3.2	22
16.x	2 S	3	128	675	19.2	36	2.8	23
	2 D	1	71	515	21.8	44	3.9	24
	7 S	3	185	800	22.5	44	3.2	21
	7 D	2	163	740	24.8	72	4.5	16
	10 S	3	6	720	37.0	36	3.8	24
	11 S	2	19	850	25.8	44	3.5	10
	11 D	6	46	930	32.5	55	3.3	26
	12 S	2	145	935	34.2	50	4.5	26
	10.xii	2 S	4	80	680	17.8	32	2.4
2 D		6	97	887	37.8	70	4.7	29
7 S		2	38	660	18.8	38	3.0	15
7 D		2	189	1022	29.0	69	4.9	13
10 S		12		718	23.4	40	3.1	27
11 S		5	21	850	23.0	37	3.2	21
11 D		9	14	1186	34.3	64	3.2	26
12 S		6	37	1038	28.0	49	4.2	28
12 D		4	3	710	35.8	52	3.1	26

Location: SHELL POINT MARSH

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
25.i	1	10	131	858	15.0	66	5.1	17
	4	7	87	1010	25.0	64	5.2	22
28.iii	1	7	118	1100	29.0	64	5.3	8
	4	4	222	880	18.5	94	8.4	18
16.v	1	6	130	760	9.5	45	4.7	12
	4	0.5	22	1100	42.0	77	8.0	4
12.vii	1	3	139	1450	16.0		2.2	9
	4	0.2	49	1400	30.8	65	8.9	1
16.viii	1	0	6	385	5.4	14	1.0	0.5
	4	1	210	1020	10.2	77	6.4	3
16.x	1	2	154	530	5.5	94	8.2	4
	4	1	8	920	15.7	52	4.3	5
10.xii	1	1		1120	20.0	65	4.8	2
	4	0.5	52	1728	30.7	196	8.6	2

Location: SHELL POINT TANKS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
25.i	1	1	292	880	26.5	65	6.5	14
	4	14	180	1000	14.7	106	11.0	16
	5	18	198	1040	13.0	92	6.9	13
28.iii	1	3	170	885	34.5	41	3.0	14
	4	18	170	1080	15.5	93	6.0	21
	5	46	350	3100	35.5	248	13.4	20
16.v	1	0	225	835	26.8	54	3.8	15
	4	11	192	1170	11.0	142	8.9	17
	5	22	135	1150	10.0	118	7.6	20
12.vii	1	3	85	900	31.8	54	4.0	20
	4	17	157	1390	15.9	120	9.6	22
	5	8	112	980	11.6	96	6.3	11
16.viii	1	8	375	1220	28.8	41	3.1	14
	4	56	175	1420	17.0	123	8.4	35
	5	10	143	1080	12.2	112	7.4	17
16.x	1	2	226	840	25.0	52	3.8	15
	4	15	134	640	7.8	120	8.7	22
	5	8	193	950	14.2	109	6.6	10
10.xii	1	0	258	770	17.0	28	2.0	11
	4	7	126	757	9.8	63	4.9	14
	5	11	142	994	10.1	98	6.7	15

Location: PORT HACKING

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
2.i	4	17	10	620	18.2	55	3.9	79
8.i	4	13	20	490	28.0	51	3.9	70
	8	0.5	60	470	21.0	39	2.8	28
15.i	4	22	6	900	23.0	44	4.5	38
22.i	4	28	0	625	35.5	44	1.1	66
5.ii	4	19	44	920	24.0	51	3.6	62
	8	0.5	90	840	35.5	93	4.7	5
12.ii	4	7	21	800	23.8	57	3.6	73
19.ii	8	3	27	856	35.2	44	3.8	20
27.ii	4	32	127	990	42.5	88	6.0	89
6.iii	4			810	19.2	44	3.6	26
	8	3	109	690	32.0	66	3.8	20
12.iii	4			805	21.8	57	5.0	78
19.iii	4	15	31	1530	78.0	126	8.4	73
	8	5	54	770	48.0	52	2.8	25
27.iii	4	6	6	960	19.0	44	3.9	33
3.iv	4			750	21.6		3.6	70
	8	0	164	645	34.0	59	3.4	28
11.iv	4	13	19	265	22.0	54	4.3	78
16.iv	4	26	48	1230	25.0	74	4.9	85
	8	9	87	450	23.5	62	3.3	33
23.iv	4	26	6	800	14.5	58	4.4	94

Location: PORT HACKING

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
28.v	4	12	44	1020	30.8	35	4.4	94
	8	0	107	690	34.0	47	3.0	31
5.vi	4	34	30	965	19.5	69	5.0	91
12.vi	4	4	42	885	23.3	49	4.4	24
	8	10	68	550	38.0	62	6.7	37
20.vi	4	11	52	910	8.3	38	3.7	24
3.vii	4	17	15	935	25.2	58	4.2	83
11.vii	4	14	23	1010	23.0	60	4.8	75
	8	2	54	465	28.0	56	3.6	20
16.vii	4	12	27	630	16.9		5.0	82
26.vii	4	11	10	590	20.8	52	4.0	46
	8	2	124	460	31.8	56	3.7	11
2.viii	4	13	15	1130	25.2	49	3.2	22
6.viii	4		81	1000	24.0	59	4.6	
	8	5	128	940	49.5	44	3.7	16
28.viii	4	26	9	750	19.8	62	4.6	85
3.ix	4	5	21	1070	31.0	65	4.7	12
	8	3	122	1340	40.6	96	4.5	19
25.ix	4	25	6	1080	23.5	66	4.9	54
	8	8	132	860	36.5	63	4.0	11
11.x	4	10	41	990	23.8	43	3.6	28
	8	0	154	800	31.5	63	2.8	4
22.x	4	20	17	960	29.5	67	4.3	73

Location: PORT HACKING

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
26. x	8	4	165	760	32.2	57	2.6	22
1. xi	4	19	32	1000	22.5	61	4.2	53
	8	1	62	640	28.0	45	2.0	12
12. xi	4	17	39	975	23.5	60	4.4	69
	8	2	175	840	28.8	44	3.0	25
22. xi	4	8	32	860	28.2	58	4.1	76
	8	3	97	560	27.5	60	3.1	22
6. xi	4	9	28	1130	20.0	72	4.6	12
	8	2	150	840	29.5	65	3.4	16

Location: MAIANBAR - PORT HACKING

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951 4.vii	1	0.3	8	825	13.5	58	3.8	7
	2	0	29	1020	11.6	80	6.2	0.5
	3		15	400	7.0		1.8	
	4	33	35	1270	25.5	88	5.2	62
21.viii	1	0	9	710	17.2	45	4.1	2
	2	0.3	187	1190	27.8	50	4.2	4
	3	4	74	1160	27.0	80	4.7	40
	4	12	50	1000	28.0	81	4.3	72
4.ix	1	0	33	485	8.2	26	2.7	6
	2	2	190	1700	14.4	77	10.0	4
	3	56	20	1180	31.8	97	5.4	60
	4	0	142	860	22.8	104	6.2	19
12.ix	1	7	74	950	15.2	61	5.2	20
	2	10	22	975	26.8	68	5.4	83
	3	7	43	830	19.3	86	4.4	26
	4	15	26	820	30.0	89	5.0	56
12.x	1	0.4	19	885	13.7	49	5.0	1
23.x	1	1	23	980	16.8	62	5.3	17
	2	2	23	400	8.2	60	5.4	9
	3	20	36	1010	21.5	69	4.4	53
	4	18	38	1100	25.0	88	5.0	63
2.xi	1	2	24	1090	16.5	74	6.1	8
	2	1	48	1180	16.0	90	7.1	4
	3	34	0	1090	24.0	90	4.8	45
	4	19	20	1080	25.5	87	5.0	35
13.xi	1	0.4	0	890	18.8	56	5.3	2
	2	2	61	1140	17.0	83	6.4	7
	3	17	43	1250	25.8	90	5.9	39
	4	6	12	900	28.0	87	4.4	19

Location: MAIANBAR - PORT HACKING

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silk
1951 4.xii	1	2	12	855	16.4	63	5.6	7
	2	1	48	1000	15.2	75	4.2	4
	3	30	61	1010	26.8	62	4.0	51
	4	7	18	780	25.2	85	3.6	40
17.xii	1	10		890	23.2	76	4.4	27
	2	12		1020	15.5	84	6.6	10
	4	15		1140	26.2	124	6.2	26

Location: PITTWATER - TASMANIA

Date	Station	Int. P.	Adv. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
10.i	1	3	26	410	17.0	16	2.5	7
	2	12	60	735	33.5	28	3.9	15
	3	0.5	81	800	30.5	43	5.0	1
5.ii	1	8	0	690	37.2	30	2.5	12
	2	5	76	910	40.0		2.8	13
	3	33		1280	38.2	47	3.4	12
14.iii	1	0	68	525	38.8	24	2.6	19
	2	2	36	640	49.0	34	2.2	8
	3	2	66	710	11.5	13	1.0	4
24.iv	1	6	1	750	16.9	34	4.9	9
	2	2	171	825	30.5	27	5.4	8
	3	3	290	1240	7.3	45	11.9	10
10.v	1	3	72	595	8.0	34	4.8	5
	2	2	131	880	30.0	34	5.2	7
	3	0.5	110	580	4.0	23	1.8	2.5
10.vii	1		44	690	11.7		4.0	
	2	3	63	805	35.7	19	3.3	8
	3	2	32	1100	38.2	33	3.7	6
7.viii	1			170	1.8			
	2		66	525	37.0			
	3			345	11.5			1
6.ix	1		95	520	14.5	16	2.1	
	2	5	135	725	38.0	20	2.3	9
	3		43	575	15.3	17	2.5	
5.x	1	9	129	390	11.5	13	1.3	71
	2	12	24	630	40.0	28	3.0	22
	3		28	280	12.2	14	0.9	

Location: PITWATER - TASMANIA

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
1.xi	1	2	54	725	24.8	23	2.6	9
	2	6	42	850	36.2	29	4.3	8
	3	4	87	830	39.5	28	3.6	7
6.xii	2	2	157	360	18.5	18	1.9	11
	3		322	967	9.0	30	1.1	
	4	7	95	390	39.0	22	1.8	37

Location: LAKE DOBSON

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
16.1	1	4	22	167	3.5	34	1.2	40
	2	11	27	228	9.8	78	4.5	55
	3	2	10	208	26.0	38	2.0	38
22.1	1	4	165	800	17.5	144	8.6	56
	2	5	27	153	5.3	63	4.4	76
	3	0	10	180	33.0	15	1.0	20
30.1	1	0	11	255	4.2	50	3.9	37
	2	0	29	280	9.8	62	4.2	71
	3	1	13	285	27.0	39	2.0	35
19.11	1	15	27	170	8.0	63	3.9	58
	2	9	31	205	6.5	60	4.3	79
	3	2	23	158	22.0	31	1.8	24
20.11	1	17	95	177	3.5	58	4.2	73
	2	12	78	235	8.9	30	5.0	87
	3	17	33	250	8.8	84	5.3	48
26.11	1	3	16	240	5.9	38	2.1	31
	2	13	38	225	7.7	50	5.5	67
	3	4	45	250	20.5	50	3.0	46
6.111	1	7	30	82	2.2	46	1.7	59
	2	16	12	220	8.6	83	3.6	86
	3	10	19	215	13.6	89	5.0	49
19.111	1	4	55	360	6.4	45	3.5	35
	2	0	95	400	11.9	86	6.0	80
	3	5	67	400	11.0	84	5.4	37
20.111	1	0	65	285	4.5	58	3.5	70
	2	5	95	400	11.9	91	6.2	56
	3	1	82	515	23.5	32	2.4	25

Location: LAKE DOBSON

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951 2.1v	1	6	21	320	9.2	53	2.8	50
	2	4	32	320	9.8	67	3.9	48
	3	0	24	245	17.6	29	1.8	38
23.1v	1	7	23	220	4.0	83	4.1	80
	2	12	21	240	5.0	70	5.3	93
	3	4	10	220	8.0	58	4.0	33
24.1v	1	4	41	220	6.2	64	4.8	69
	2	16	48	190	6.1	73	6.1	93
	3	3	17	200	6.2	53	6.5	81
3.v	1	0	20	170	3.3	54	3.3	56
	2	7	31	225	3.6	73	5.1	97
	3	3	17	180	9.1	38	3.1	41

Location: SWAN RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
15.i	2	1	0	380	9.0	48	2.5	7
	3			750	10.0	45	1.6	4
	4	1	0	310	12.0	36	1.4	3
	5	0.5	73	435	15.0	32	3.0	3
	5a	2	10	220	12.0	35	1.1	6
	6	12	10	225	20.0	28	0.63	30
	7	16	33	225	20.0	30	0.53	97
	8	0	500	940	44.0	46	2.3	75
	9	0	190	1400	135.0	125	5.9	28
	9a	1	18	340	20.0	30	1.05	4
	10	0	480	1250	75.0	90	1.6	30
	12	0	165	595	55.0	40	0.8	28
	13	0		945	80.0	63	1.6	38
31.i	6	12	0	225	20.0	28	0.63	30
28.ii	2	2	0	340	6.5	48	1.7	6
	3			530	4.0	30	1.2	3
	4	4	10	610	13.0	46	1.3	3
	5	1	80	580	12.0	47	3.8	3
	5a	26	90	1250	65.0	125	7.0	17
	6	59	130	1725	125.0	175	4.2	25
	7	23	158	770	60.0	80	2.3	86
	8	12	223	890	55.0	82	3.3	71
	9	23	73	610	42.0	66	4.1	55
16.iii	6	0	145	605	58.0	49	4.7	82
28.iii	2	9	40	705	9.0	95	5.8	12
	3	4	0	760	6.0	46	3.5	3
	4			810	8.0	57	4.3	1
	5	0.5	32	535	9.0	45	4.0	2
	5a	4	75	795	25.0	100	7.5	12
	6	22	145	760	27.0	60	4.0	31
	7	10	169	520	30.0	70	3.8	95
	8	19	270	730	28.0	77	5.0	76
	9	8	100	545	20.0	55	3.5	40

Location: SWAN RIVER

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silc
1951								
13.iv	6	4	90	470	46.0	36	3.5	71
20.iv	6	4	165	400	40.0	27	2.5	85
26.iv	6	3	126	485	38.0	35	2.9	75
25.v	6	2	208	700	40.0	29	2.0	80
12.vi	2	3	10	620	16.0	58	7.0	8
	3	2	10	855	17.0	38	4.6	3
	4	1	80	795	23.0	38	4.6	3
	5	2	33	1025	30.0	53	6.2	2
	5a	5	52	665	38.0	42	6.4	25
	6	15	20	560	35.0	27	3.2	37
	7	15	95	445	33.0	30	2.7	97
	8	9	145	590	45.0	42	4.6	58
	9	5	125	620	45.0	46	4.4	50
11.vii	2			1570	9.0	65	4.9	7.5
	3	2	105	1295	7.0	39	4.6	1.5
	4	0.3	80	940	3.5	31	4.3	0.25
	5	2	120	900	9.0	45	5.6	2
	5a	4	105	960	24.0	63	6.7	14
	6	7	63	535	10.0	28	2.7	24
	7	9	102	430	12.0	32	3.2	90
	8	3	161	570	20.0	35	3.4	70
	9	9	98	555	25.0	48	2.8	40
19.vii	6	2	208	700	46.0	39	2.9	93
27.vii	6	0	150	555	18.0	28	2.5	99

Location: SWAN RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
8.viii	1	11	0	1110	2.5	40	4.0	17
	3	9	13	690	5.0	35	3.4	25
	4	24	18	480	9.0	34	2.7	58
	5	7	102	415	8.0	23	2.2	92
	5a	3	28	550	13.0	50	6.3	20
	6	12	128	545	10.0	30	2.6	98
	7	16	83	420	15.0	31	2.6	92
	8	8	240	725	16.0	33	3.8	77
	9	28	930	930	25.0	48	4.6	50
31.viii	6	4	221	580	35.0	25	1.9	99
11.ix	1	8	7	700	13.0	35	2.8	35
	3	18	16	715	27.0	34	3.7	40
	4	26	50	710	26.0	37	2.2	70
	5	9	84	460	28.0	28	2.5	94
	5a	8	50	720	27.0	42	4.8	14
	6	5	125	520	31.0	24	2.0	100
	7	18	112	455	34.0	30	2.6	97
	8	12	145	650	27.0	36	2.8	80
	9	8	219	870	33.0	39	3.7	17
28.ix	6	4	151	480	38.0	28	2.2	98
26.x	6	0	160	540	36.0	25	2.1	88
9.xi	2	0	45	250	16.0	32	0.6	1
	4	25	30	670	21.0	41	3.3	45
	5	14	55	475	28.0	27	3.1	68
	6	12	60	490	28.0	28	2.3	35
	7	14	80	560	41.0	30	2.9	70
	8	16	270	830	36.0	35	3.5	80
	9	14	228	880	53.0	48	5.1	44

Location: SWAN RIVER

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951 7.xii	2	2	0	715	9.0	100	7.0	6
	3	1	24	615	21.0	50	3.7	4.5
	4	1	0	450	11.0	31	3.0	7.5
	5	4	0	475	12.0	35	2.7	8
	5a	2	22	430	23.0	41	3.4	11
	6	5	8	390	23.0	24	2.2	25
	7	8	12	235	16.0	30	1.5	98
	8	4	29	285	14.0	23	0.8	35
	9	13	0	350	20.0	33	4.1	51
	9a	2	74	625	21.0	40	7.7	5
	10	7	278	590	33.0	36	8.3	34
	12	6	163	840	37.0	37	7.0	50
	13	6	65	560	42.0	26	5.6	38

Location: PEEL-HARVEY ESTUARY

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951								
8.i	1	5	47	590	32.0	62	8.2	11
	1a	6	0	460	22.0	48	8.9	6
	2	5	0	38	10.0	10	1.5	84
	3	0	13.5	125	27.0	30	1.8	7
	3a	0	21	145	38.0	42	1.1	60
	3b	0	27	150	26.0	36	3.2	37
	4	0	53	250	43.0	33	1.7	57
	4a	1	8.5	95	40.0	18	0.85	17
	5	0	55	190	40.0	47	4.4	8
8	0	110	410	50.0	27	0.9	53	
9	0	275	590	60.0	36	1.5	10	
21.iii	1	19	0	685	20.0	58	4.1	20
	2	5	10	100	23.0	26	1.3	72
	3a	0	68	320	45.0	57	3.5	9
	4	12	95	425	50.0	56	3.0	50
	5	0.2	25	175	20.0	42	3.0	3
	8	21	54.0	2160	155.0	48	1.0	30
30.v	1	5	0	720	36.0	60	4.8	18
	1a	2	19	530	21.0	33	4.3	6
	2	0	26	140	32.0	27	2.4	20
	3a	0	15	155	30.0	38	2.0	65
	5	0.1	36	190	23.0	33	4.4	3
	8	0	270	790	45.0	28	2.2	44
4.vii	1	2	3	520	15.0	48	4.0	12
	2	0	40	160	17.0	17	2.2	13
	3a	0	16	200	16.0	40	2.3	65
	5	0.3	31	190	18.0	29	3.8	4
	8	2	211	1440	50.0	19	1.3	22
	1.viii	1			300	5.0	22	1.1
2		0.5	45	165	7.0	14	1.3	23
3a		0.5	32	175	12.0	15	2.7	17
5		3	67	225	10.0	31	4.5	60
8		0	180	460	23.0	31	2.6	93

Location: PEEL-HARVEY ESTUARY

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1951 5.1x	1	11	45	785	21.0	40	4.3	20
	2	0.8	92	340	31.0	32	2.8	10
	3a	0	8	170	29.0	36	1.5	54
	3b	4	205	725	53.0	30	2.6	70
	5	0	162	470	25.0	44	5.8	2
10.x	1	2	4	380	8.0	30	1.4	10
	2	2	13	95	15.0	12	1.2	84
	3a	0	155	265	35.0	26	3.0	8
	5	4	22	165	27.0	26	2.5	75
	8	6	295	1820	75.0	18	1.4	30

Location: LESCHENAU LT INLET

Date	Station	Int. P.	Ada. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
18.v	2a	0.3	300	765	40.0	26	2.4	5
	3	1	55	330	40.0	42	3.0	20
	3a	0	70	335	25.0	27	3.0	2
	4	0.4	258	955	45.0	125	13.5	3
	6	0.4	32	435	15.0	28	4.7	4
	7	2	154	450	50.0	52	2.9	40
	8a	0	1180	2420	135.0	25	4.3	0.5
	9	0	62	230	50.0	18	1.4	13
	10	0	535	1370	70.0	96	6.7	2
23.x	1	44	15	915	23.0	45	3.9	63
	2a	3	358	1080	57.0	21	1.6	10
	3	8	51	470	30.0	38	3.2	20
	3a	0.6	23	92	250.0	30	1.3	32
	4	0.1	102	425	24.0	31	3.3	1
	6	0.4	114	400	40.0	34	3.9	6
	7	0.1	510	1020	40.0	32	1.9	1
	8a	0.3	331	835	59.0	18	1.3	3
	9	1	120	1080	66.0	370	1.2	1
	10	2	160	590	59.0	47	3.0	8

Location: HARDY INLET

Date	Section	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
15.v	1	0.4	0	135	3.0	28	1.3	4
	2	3	29	370	60.0	40	2.9	44
	3	0	45	295	50.0	50	3.4	44
	5	0	22	240	30.0	35	2.7	3
	7	0	235	835	65.0	50	5.7	2
	8	0	145	545	50.0	44	4.2	13
	9	0	12	120	30.0	5	1.1	32
17.x	1	0.1	0	300	9.0	21	0.46	1
	2	3	27	415	22.0	38	2.9	24
	3	0.1	43	500	44.0	52	4.3	2
	5	0	97	330	68.0	31	2.0	55
	6	15	58	315	65.0	36	2.0	51
	7	4	241	680	50.0	32	2.4	90
	8	2	310	825	45.0	50	4.1	43
	9	0.1	169	500	60.0	32	2.9	1

Location: **NORNALUP INLET**

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
12. v	2	18	18	570	17.0	95	6.5	52
	3	3	0	545	6.0	60	3.7	5
	4	1	125	700	18.0	125	9.4	4
	5	8	45	620	18.0	110	6.5	27
	7	2	136	360	6.0	85	4.1	12
14. x	1	0.1	0	270	2.5	32	0.08	1
	2	4	36	525	25.0	62	4.7	31
	3	8	9	710	15.0	49	4.6	22
	4	5	34	465	20.0	50	3.8	28
	5	2	70	700	40.0	72	6.5	22
	6	0.1	530	1100	45.0	45	3.5	1
	7	0	108	540	30.0	18	3.8	9
	8	0	120	480	30.0	52	7.0	10

Location: WILSON'S INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1951								
11. v	1	39	4	750	14.0	70	6.2	44
	2	7	51	585	18.0	75	5.3	81
	3	1	110	600	24.0	85	5.7	5
	4	5	67	580	24.0	90	5.5	60
	5	0.5	18	100	14.0	16	1.0	24
	6	0.6	51	390	30.0	90	5.0	5
	7	0.7	109	640	30.0	105	6.2	6
	8	3	227	600	25.0	110	4.1	38
12. x	1	43	10	2900	62.0	150	17.0	10
	2	4	50	530	26.0	50	3.9	42
	3	0.4	46	500	20.0	40	3.5	2
	4	5	20	320	50.0	46	2.7	48
	5	9	2	88	45.0	26	0.75	98
	6	6	212	820	33.0	68	8.7	11
	7	1	117	530	72.0	87	6.8	7
	8	5	215	605	36.0	71	3.1	53

Location: RICHMOND RIVER - No. 5 - WARDELL

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951 1- 2. ix	12n	33	22.20	17.80	8.36	5.73	91	10	9
	1pm	24	23.90	17.80					
	2	18	22.80	17.80	6.99	5.81	91		
	3	15	20.60	17.50					
	4	15	20.00	17.50	6.20	5.65	87	8	0
	5	26	18.90	17.50					
	6	36	16.10	17.30	6.55	5.75	89		
	7	45	15.60	17.50					
	8	52	15.60	17.50	8.66	5.69	90	10	2
	9	57	14.40	17.60					
	10	58	14.40	17.70	10.70	5.57	91		
	11	52	15.00	17.40					
	12n	42	13.90	17.60	11.02	5.51	90	17	0
	1am	33	13.30	17.30					
	2	14	12.20	17.20	8.85	5.59	89		
	3	6	11.70	17.00					
	4	12	12.20	17.00	6.80	5.51	85	13	0
	5	6	11.10	17.00					
	6	12	10.00	17.00	6.09	5.43	83		
	7	21	11.10	16.90					
8	30	13.30	17.00	6.60	5.57	86	13	0	
9	34	17.20	17.00						
10	35	20.60	17.20	8.45	5.07	80			
11	30	22.20	17.20						
12n	24	21.70	17.00	8.57	5.19	82	13	0	

Location: CLARENCE RIVER - No. 5 - MACLEAN

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1951									
30- 31. viii	3pm	28	18.90	16.90	2.11	6.54	96	6	5
	4	31	17.20	16.40					
	5	37	16.10	16.40	1.71	6.50	94		
	6	42	16.70	16.40					
	7	45	13.30	16.40	4.08	6.19	92	5	7
	8	49	13.90	16.40					
	9	51	13.90	16.40	5.30	6.05	91		
	10	52	13.90	16.50					
	11	49	13.30	16.40	6.23	5.91	90	5	4
	12mn	44	12.80	16.30					
	1am	41	12.80	16.10	5.70	6.05	91		
	2	39	12.80	16.10					
	3	36	12.80	16.10	5.09			5	6
	4	33	12.20	16.00					
	5	33	12.20	16.00	3.06	5.83	85		
	6	36	11.70	15.90					
	7	40	12.20	15.70	2.03	6.21	89	4	0
	8	42	12.80	16.00					
	9	44	14.40	16.00	3.98	6.12	90		
	10	44	16.70	16.30					
11	40	20.60	16.60	4.42	5.95	89	4	14	
12n	37	20.60	16.60						
1pm	33	21.10	16.80	3.98	6.05	90			
2	30	21.10	16.70						
3	29	22.20	16.80	2.76	6.56	96	4	24	

Location: MACLEAY RIVER - No. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1951 27- 28. viii	4pm	50	18.90	14.70	5.46	6.80	99	15	42
	5	52	16.10	15.90					
	6	51	11.70	16.10	6.00				
	7	47	8.89	16.60					
	8	39	8.33	16.30	9.72	6.40	101	16	47
	9	31	8.33	16.40					
	10	24	8.89	15.50		6.38			
	11	18	7.78	15.30					
	12mn	15	7.78	15.20	7.15	6.07	91	15	64
	1am	17	7.78	15.00					
	2	19	7.78	14.70	4.71	6.45	93		
	3	25	7.78	14.50					
	4	30	6.67	14.50	4.00	6.60	95	16	44
	5	32	6.67	14.60					
	6	33	3.89	15.20	4.89	6.60	96		
	7	31	5.00	15.30					
	8	27	8.33	13.30	3.78	6.95	97	15	43
	9	21	12.80	14.00					
	10	17	17.20	14.80	3.40	6.77	97		
	11	15	19.40	14.80					
	12n	16	25.60	15.30	2.56	6.65	95	15	43
	1pm	20	25.00	15.70					
	2	28	27.20	15.70	2.53	6.75	97		
	3	37	24.40	15.50					
4	46	23.90	16.00	5.19			17	62	

Location: HASTINGS RIVER - No. 1 - PORT MACQUARIE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951									
26-	8am	32	11.70	14.30	12.49	6.30	99	2	0
27. viii	9	30	13.30	14.30					
	10	31	15.60	14.50	12.30	6.35	100		
	11	34	17.80	14.80					
	12n	38	19.40	15.20	12.08	6.25	99	2	0
	1pm	43	19.40	15.50					
	2	48	19.40	15.40	13.44	6.30	102		
	3	53	18.30	16.00					
	4	57	17.20	16.00	16.65	5.94	100	2	0
	5	60	14.40	16.20					
	6	58	13.90	16.10	16.01	5.83	98		
	7	54	12.80	14.20					
	8	50	12.20	15.20	15.00	6.30	103	2	0
	9	45	11.70	15.40					
	10	39	8.89	15.00	13.52	6.40	101		
	11	36	8.33	14.90					
	12mm	36	8.33	14.70	12.87	6.25	99	0	0
	1am	36	7.78	14.50					
	2	36	7.22	14.40	12.93	6.35	100		
	3	39	7.22	14.40					
	4	41	7.22	14.40	12.81	6.35	100	2	0
	5	43	5.56	14.40					
	6	43	6.11	14.20	13.43	6.45	102		
	7	39	16.10	13.80					
	8	37	12.80	14.00	13.07	6.26	98	2	0

Location: MANNING RIVER - No. 6 - TARRE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1951 24- 25. viii	6pm	33	16.10	13.40	2.99	7.62	105	0	0
	7	27	15.00	13.10					
	8	21	12.20	13.20	2.73	7.22	99		
	9	18	10.60	13.10					
	10	14	8.89	12.90	2.73	6.57	90	0	6
	11	12	11.10	12.80					
	12am	12	12.80	12.60	2.20	7.09	96		
	1am	12	11.10	12.40					
	2	18	11.10	12.20	2.99	7.28	98	3	0
	3	22	9.44	12.20					
	4	21	10.00	12.20	2.31	7.36	97		
	5	21	11.70	12.30					
	6	18	11.10	12.30	2.37	7.26	99	0	0
	7	13	12.20	12.30					
	8	9	13.30	12.30	2.33	7.28	98		
	9	6	14.40	12.50					
	10	4	21.10	12.70	2.41	7.20	99	0	0
	11	5	18.90	13.00					
	12n	9	23.30	13.50	2.09	7.46	102		
	1pm	16	23.30	14.00					
	2	23	22.20	14.20	2.79	7.41	104	0	11
	3	29	20.00	14.10					
	4	34	20.60	14.20	3.50	7.50	106		
	5	36	18.30	14.20					
6	36	20.00	14.10	4.00	7.60	108	0	3	

Location: HAWKESBURY RIVER - No. 10 - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951			SKY						
24-25.1	2pm	31	7	22.20	0.05	5.14	81	7	132
	3	21	6	22.00					
	4	12	7	22.00	0.08	5.18	82	9	132
	5	10	5	21.90					
	6	15	5	21.80	0.10	4.85	76	6	83
	7	26	5	21.80					
	8	39	9	21.80	0.10	4.97	78	6	
	9	51	8	21.80					
	10	58	8	21.70	0.08	5.00	78	7	72
	11	54	8	21.80					
	12m	46	8	21.70	0.15	4.80	75	8	112
	1am	39	8	21.20					
	2	29	6	21.60	0.10	4.93	77	13	50
	3	21	6	22.00					
	4	17	5	21.50	0.08	4.97	78	14	109
	5	19	5	21.60					
	6	28	5	21.60	0.08	4.85	76	15	109
	7	40	6	21.50					
	8	54	5	21.50	0.08	4.94	77	8	100
	9	66	7	21.60					
	10	73	5	21.60	0.07	5.04	79	6	88
	11	68	5	21.80					
	12m	66	4	22.00	0.07	4.93	78	10	126
	1pm	52	4	22.20					
	2	42	4	22.10	0.07	5.04	79	6	115
17-18.1v	6pm	54	9	20.10	13.26	4.85	85	5	55
	7	55	3	20.10					
	8	50	1	20.10	13.72	4.78	84		
	9	42	5	18.80					
	10	33	1	19.80	12.59	4.90	85	3	60
	11	30	1	19.80					
	12m	23	5	19.60	11.60	4.85	82		
	1am	24	9	19.90					
	2	30	9	19.80	11.35	4.77	81	3	84
	3	39	9	19.90					
	4	51	9	19.90	12.16	4.71	81		
	5	61	9	19.90					

Location: HAWKESBURY RIVER - No. 10 - PUMPKIN POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951			SKY						
17-18. iv	6am	64	10	19.70	13.39	4.68	81	3	58
	7	66	10	19.90					
	8	59	10	20.00	13.80	4.66	82		
	9	49	10	19.60					
	10	36	10	19.60	13.14	4.67	81	3	48
	11	26	10	19.70					
	12n	16	10	19.70	12.21	4.71	81		
	1pm	14	10	19.70					
	2	16	4	19.80	5.65	4.71	75	3	46
	3	26	0	20.10					
	4	37	1	19.90	11.99	4.71	81		
	5	48	0	20.00					
	6	56	0	19.90	12.96	4.82	84	3	49
	17-18. vi	4pm	38	1	13.40	5.40	6.36	90	9
5		51	1	12.00					
6		67	1	12.00	8.15	6.16	88		
7		76	0	12.00					
8		82	0	14.20	11.50	5.76	89	4	16
9		83	0	13.80					
10		76	0	13.00	11.15	5.85	87		
11		63	0	14.40					
12n		48	0	11.80	8.67	6.06	86	7	95
1am		36	0	11.90					
2		21	0	12.20	7.27	6.22	88		
3		12	0	11.80					
4		14	0	11.50	4.81	6.41	87	3	129
5		26	0	11.20					
6		39	0	11.20	3.96	6.62	88		
7		48	0	11.20					
8		61	0	11.10	4.96	6.41	87	6	135
9		65	0	12.30					
10	62	0	12.40	6.92	6.33	89			
11	52	0	11.90						
12n	40	0	11.60	4.41	6.55	89	20	136	
1pm	32	0	11.60						
2	24	0	11.60	4.10	6.50	88			
3	22	0	11.40						
4	28	0	11.20	3.38	6.58	88	6	180	

Location: HAWKESBURY RIVER - No. 10 - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1951			SKY						
28-	9am	63	5	20.80	16.25	4.80	88	6	11
29. xi	10	51	8	20.80					
	11	37	4	21.10	15.86	5.01	92		
	12n	24	5	20.60					
	1pm	12	4	21.40	15.21	4.93	90	6	14
	2	3	6	21.30					
	3	0	2	21.40	14.17	4.86	88		
	4	10	1	21.60					
	5	24	2	21.40	14.23	4.93	89	5	19
	6	37	4	21.20					
	7	48	7	21.00	15.45	4.97	90		
	8	52	4	20.80					
	9	53	4	20.80	16.00	5.23	95	5	14
	10	42	4	20.40					
	11	30	7	20.60	15.54	5.00	90		
	12nn	18	1	20.40					
	1am	11	1	20.70	14.41	5.16	92	8	24
	2	5	1	20.60					
	3	9	1	20.80	13.80	5.07	90		
	4	24	1	20.80					
	5	35	1	20.60	14.35	5.13	91	7	14
	6	48	1	20.50					
	7	63	1	20.60	15.58	4.98	90		
	8	69	0	20.30					
	9am	73	0	20.50	15.92	5.11	93	7	18

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951									
15-16.1	9am	39	21.10	22.20	19.35	4.41	85	0-25	0
	10	43	21.10	22.50					
	11	49	20.60	22.50	19.39	4.72	92	4	0
	12n	55	20.00	22.40					
	1pm	58	20.60	22.50	19.38	5.03	98	4-40	0
	2	56	20.60	22.50					
	3	54	21.10	22.60	19.35	5.24	102	6	0
	4	49	20.60	22.60					
	5	44	20.00	22.60	19.38	5.18	101	7-27	0
	6	40	19.40	22.50					
	7	33	19.40	22.20	19.38	5.09	98	10	0
	8	30	19.40						
	9	33	18.90		19.47	5.00		5-28	0
	10	38	18.90						
	11	48	18.90	22.00	19.39	4.93	95	4	0
	12n	54	19.40	22.00					
	1pm	59	19.40	22.20	19.38	4.84	94	6-52	0
	2	63	19.40	22.00					
	3	66	19.40	22.00	19.38	4.76	92	8	0
	4	64	19.40	22.00					
5	59	19.40	21.80	19.39	4.66	89	7-40	0	
6	53	18.90	21.00						
7	46	18.30	20.80	19.47	4.44	84	9	0	
8	41	18.30	20.00						
9	36	17.20	19.60	19.45	4.61	86	10-37	0	
12-13.11	9am	42		22.40	16.23	4.22	79	19-0	4
	10	48		22.70					
	11	54		22.80	16.30	4.37	82		3
	12n	58		22.80					
	1pm	60		23.00	16.28	4.55	85	10-12	0
	2	54		22.60					
	3	46		22.20	16.20	4.45	83		0
	4	37		22.00					
	5	31		22.00	16.25	4.73	88	11-12	0
6	25		22.00						
7	27		22.00	16.28	4.54	85		0	
8	30		21.80						

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951									
12-13.11	9pm	39		21.80	16.11	4.44	83	15-12	9
	10	45		21.80					
	11	55		22.00	16.20	4.62	86		0
	12mn	60		22.50					
	1	63		22.70	16.11	4.52	85	7-18	0
	2	61		22.60					
	3	55		22.40	16.18	4.61	86		0
	4	48		22.30					
	5	43		22.20	16.19	4.41	82	12-12	0
	6	36		22.10					
	7	31		22.20	16.21	4.35	81		0
	8	32		22.50					
	9	36		22.60	16.29	4.76	90	10-10	0
12-13.111	9am	55	21.70	22.60	17.58	5.52	101	0-10	11
	10	63	23.30	22.60					
	11	66	23.90	22.80	17.58	5.52	106		
	12n	65	23.90	22.80					
	1pm	57	23.90	23.00	17.58	6.16	118	0-15	3
	2	52	23.30	23.80					
	3	42	23.30	24.00	17.58	6.16	120		
	4	36	23.30	24.00					
	5	30	22.80	24.20	17.30			1-22	33
	6	31	22.80	24.10					
	7	36	22.80	23.90	17.52	5.67	111		
	8	46	22.20	23.80					
	9	58	21.70	23.30	17.36	6.17	119	0-22	14
	10	65	18.90	23.20					
	11	72	18.30	23.10	17.62	5.84	113		
	12mn	72	17.80	23.00					
	1am	68	17.20	22.30	17.58	4.81	91	2-10	14
	2	60	17.80	22.30					
	3	50	17.80	22.30	17.57	4.81	91		
	4	40	18.30	22.20					
	5	32	17.80	22.20	17.57	5.03	96	0-15	3
	6	31	18.30	22.20					
	7	34	18.90	22.20	17.49	5.13	97		
	8	37	20.60	22.80					
	9	45	23.90	22.80	17.44	5.35	102	0-12	10

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951									
12-13. iv	9am	46	15.00	19.00	18.45	4.53	82	3-4	0
	10	51	14.40	19.20					
	11	57	16.10	19.40	18.43	4.74	87		
	12n	60	16.10	19.50					
	1pm	57	17.20	19.50	18.33	5.32	97	5-5	0
	2	54	17.20	19.50					
	3	48	17.80	19.60	18.68	3.58	66		
	4	45	17.80	19.70					
	5	41	17.20	19.30	18.54	5.28	97	5-5	0
	6	40	16.10	19.10					
	7	45	15.00	19.00	18.46	5.15	94		
	8	50	13.90	18.80					
	9	57	14.40	18.80	18.46	5.00	91	7-3	0
	10	63	13.90	18.80					
	11	69	12.80	18.70	18.29	5.05	91		
	12mn	74	12.20	18.70					
	1am	74	12.20	18.60	18.41	5.08	92	7-3	0
	2	69	14.40	18.20					
	3	62	11.70	18.10	18.38	5.05	90		
	4	53	14.40	17.80					
	5	45	14.40	17.60	18.40	5.00	89	7-4	4
	6	39	11.70	17.40					
	7	36	12.20	17.40	18.40	4.78	84		
	8	36	12.20	17.40					
	9	39	13.90	17.60	18.41	4.58	81	11-0	4
14-15. v	9am	35	13.90	15.70	18.89	5.12	88	2-6	0
	10	37	15.00	15.80					
	11	42	16.10	16.10	19.02	5.43	94		
	12n	48	17.20	16.40					
	1pm	54	17.20	16.30	19.00	5.56	97	3-9	0
	2	58	17.20	16.80					
	3	60	17.80	16.50	20.18	5.59	99		
	4	59	17.80	16.40					
	5	55	16.10	16.10	18.92	5.77	100	4-9	34
	6	50	13.90	15.90					
	7	47	13.90	15.80	18.87	5.53	96		
	8	44	13.90	15.70					

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1951									
14-v	9pm	45	13.90	15.60	18.87	5.48	94	3-9	3
15.v	10	48	13.90	15.60					
	11	54	13.30	15.60	18.89	5.42	93		
	12mn	61	12.80	15.50					
	1pm	66	11.70	15.50	18.89	5.36	92	4-9	3
	2	73	11.70	15.40					
	3	74	11.70	15.40	18.80	5.41	93		
	4	69	11.10	15.30					
	5	63	11.70	15.10	18.87	5.38	92	4-16	0
	6	55	10.60	14.90					
	7	47	11.10	14.90	18.84	5.37	91		
	8	39	13.90	14.80					
	9	35	13.90	14.90	18.87	5.22	89	4-13	9
13-	9am	48	15.60	16.60	14.04	4.95	82	3-13	117
14.vi	10	33	16.10	16.60					
	11	38	16.70	16.60	13.96	4.97	83		
	12n	46	17.20	16.70					
	1pm	55	17.80	16.80	14.73	4.91	82	6-16	105
	2	62	17.80	16.80					
	3	65	17.80	17.00	14.45	4.73	79		
	4	61	18.30	16.90					
	5	57	17.80	16.80	14.37	5.57	93	4-14	100
	6	50	17.20	16.80					
	7	42	17.20	16.80	14.43	5.46	91		
	8	36	17.20	16.70					
	9	37	17.20	16.60	14.50	5.40	90	7-20	98
	10	41	16.70	16.60					
	11	45	16.70	16.50	14.41	5.16	86		
	12mn	49	16.10	16.70					
	1pm	59	16.10	16.60	14.45	5.34	89	8-4	95
	2	65	15.00	16.90					
	3	67	15.00	16.90	16.05	4.50	74		
	4	64	13.90	16.90					
	5	57	13.90	16.80	14.95	4.82	81	9-9	80
	6	49	14.40	16.80					
	7	39	14.40	16.40	15.06	4.79	80		
	8	33	14.40	16.30					
	9	28	14.40	16.30	14.61			9-8	108

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (ft.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951 9- 10. vii	9am	51	10.00	13.10		5.94		2-21	50
	10	59	11.10	13.40					
	11	66	11.70	13.60		6.04			
	12n	67	11.70	14.10					
	1pm	62	12.20	14.10		6.40		4	56
	2	57	12.20	13.60					
	3	46	11.10	13.80		6.14			
	4	39	11.70	13.70					
	5	36	12.20	13.50		6.51		2-8	45
	6	36	11.10	13.10					
	7	42	10.00	12.90		6.47			
	8	51	10.60	13.00					
	9	62	11.70	13.20		6.17		3-12	55
	10	70	11.70	13.90					
	11	75	11.70	14.70		5.67			
	12mn	77	11.70	15.00					
	1am	73	11.70	14.30		5.66		2-11	39
	2	62	11.10	12.90					
	3	52	10.60	13.20		6.26			
	4	43	10.00	12.00					
5	33	10.00	11.70		6.12		2-18	26	
6	30	10.00	12.30						
7	30	8.89	12.40		6.07				
8	34	9.44	12.10						
9	42	12.80	12.20		6.23		2-10	34	
13- 14. viii	9am	35	10.00	11.00	17.37	6.80	106	0-13	0
	10	33	14.40	11.30					
	11	36	15.00	11.70	19.39	6.99	113		
	12n	43	12.80	11.80					
	1pm	53	12.80	12.00	17.04	6.99	110	0-12	0
	2	61	12.80	12.30					
	3	72	12.80	12.40	17.21	7.39	118		
	4	78	12.20	12.40					
	5	81	12.80	12.60	17.43	7.29	117	0-20	4
6	75	11.70	13.00						
7	67	10.00	12.80	17.35	7.12	115			
8	58	8.89	12.30						

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰/oo.	O ₂	O ₂ ‰/o	PO ₄ -P	NO ₃ -N
1951									
13-	9pm	46	7.78	12.30	17.33	7.08	113	0-14	0
14. viii	10	36	7.22	12.00					
	11	30	6.11	11.90	17.46	7.20	114		
	12mm	27	6.11	11.80					
	1am	32	6.11	11.70	17.35	7.00	110	0-14	0
	2	37	5.56	11.50					
	3	46	3.89	11.40	17.49	6.57	103		
	4	53	4.44	11.40					
	5	57	3.89	11.30	17.30	6.76	106	0-20	4
	6	59	3.89	11.30					
	7	56	3.89	11.10	17.39	6.87	107		
	8	48	4.44	11.00					
	9	40	6.67	10.60	17.31	6.70	103	0-10	0
13-	9am	44	14.40	16.00	18.43	5.25	91	0-13	10
14. ix	10	34	17.80	16.40					
	11	26	19.40	16.60	18.42	5.36	93		
	12n	21	19.40	16.70					
	1pm	23	19.40	17.00	18.44	5.43	95	0-13	0
	2	29	18.30	17.60					
	3	40	18.30	17.80	18.47	5.51	98		
	4	55	17.80	17.70					
	5	66	17.80	17.40	18.48	5.84	103	0-17	0
	6	75	17.20	16.60					
	7	78	17.20	16.50	18.61	5.46	95		
	8	72	17.20	17.10					
	9	59	17.20	17.40	18.56	5.34	94	0-15	0
	10	46	16.70	17.40					
	11	30	16.10	17.80	18.71	4.76	85		
	12mm	21	14.40	17.60					
	1am	15	14.40	17.50	18.69	4.53	80	0-27	0
	2	13	12.80	17.70					
	3	23	11.70	17.70	18.55	5.02	89		
	4	34	11.70	17.00					
	5	46	11.10	16.30	18.48	5.33	92	0-23	0
	6	57	10.60	16.50					
	7	62	11.70	16.40	18.46	5.22	91		
	8	61	11.70	16.40					
	9	54	13.90	16.30	18.45			3-10	0

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951									
15- 16.x	9am	75	20.00	19.30	17.66	5.77	105	5-12	0
	10	67	21.10	19.70					
	11	54	21.70	20.20	17.56	4.66	86		
	12n	39	21.10	20.80					
	1pm	27	20.60	21.60	17.58	5.55	104	3-6	0
	2	20	20.60	22.10					
	3	21	20.60	22.60	17.53	5.29	101		
	4	27	20.60	22.50					
	5	37	19.40	22.30	17.57	4.73	90	2-15	0
	6	49	19.40	22.40					
	7	51	19.40	21.00	17.76	5.58	104		
	8	79	19.40	20.10					
	9	80	18.30	21.60	17.60	4.87	91	4-9	0
	10	63	16.70	20.20					
	11	51	16.70	21.00	17.65	5.18	96		
	12mn	42	15.60	20.80					
	1pm	33	15.00	20.50	17.75	4.98	92	3-10	0
	2	30	14.40	20.00					
	3	21	13.30	20.00	17.75	4.66	86		
4	28	13.30	20.00						
5	39	12.80	20.20	17.77	4.87	90	4-8	0	
6	53	12.80	20.00						
7	66	15.00	19.80		4.98				
8	75	16.70	19.80						
9	79	19.40	19.80	17.72	5.17	95	3-9	0	
8- 9.xi	9am	39	21.70	21.30	19.25	4.80	91	12-9	233
	10	37	23.30	21.60					
	11	41	21.70	21.90	19.25	5.07	97		26
	12n	47	20.60	22.30					
	1pm	56	20.60	22.10	19.27	5.03	97	4-9	118
	2	66	19.40	22.20					
	3	75	20.60	22.60	19.25	5.17	101		5
	4	78	20.00	22.70					
5	81	20.00	22.50	19.25	5.48	106	3-10	19	
6	70	20.00	22.50						
7	60	20.00	23.00	19.31	4.85	95			
8	51	19.40	23.00						

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951									
8- 9. xi	9pm	39	20.00	22.80	19.37	4.80	94	3-6	38
	10	33	20.00	22.50					
	11	31	19.40	22.50	19.41	4.98	97		
	12pm	36	17.80	22.50					
	1pm	42	17.20	22.00	19.36	4.58	88	7-7	9
	2	55	16.70	21.90					
	3	64	15.00	21.50	19.17	4.86	93		
	4	72	15.60	21.40					
	5	72	15.60	21.20	19.24	4.48	85	8-10	4
6	70	15.60	21.00						
7	62	16.70	21.10	19.23	4.52	86			
8	56	19.40	21.20						
9	49	21.70	21.30	19.27	4.62	88	8-13	10	
10- 11. xii	9am	51	20.00	20.70	19.76	4.24	80	10-18	7
	10	39	21.10	20.80					
	11	30	21.10	21.10	19.84	4.77	91		
	12n	24	21.70	21.30					
	1pm	21	21.10	21.50	19.85	4.67	90	9-44	13
	2	23	21.70	21.50					
	3	30	21.70	21.40	19.83	4.73	91		
	4	39	21.10	21.30					
	5	49	20.60	21.30	19.82	4.72	90	10-28	7
	6	53	20.00	21.30					
	7	50	18.90	21.30	19.82	4.45	85		
	8	48	17.80	21.40					
	9	42	17.80	21.30	19.83	4.46	85	8-29	7
	10	35	17.20	21.00					
	11	27	16.10	20.90	19.86	4.53	86		
	12pm	25	16.10	19.90					
	1pm	27	16.10	19.50	19.83	4.54	85	11-22	8
	2	34	12.80	19.60					
	3	46	11.70	19.80	19.83	4.49	84		
4	55	12.20	19.80						
5	66	14.40	19.80	19.85	4.51	84	11-12	8	
6	73	15.00	20.00						
7	74	16.10	20.00	19.87	4.49	84			
8	70	17.20	20.10						
9	61	20.00	20.00	19.87	4.53	85	13-20	12	

Location: TAMAR RIVER - No. 4a - ROSEVEAR

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1951			SKY						
16-17.11	7pm	86	2	21.20	15.87	4.96	91	8-15	0
	8	101	1	21.10					
	9	108	2	21.05	16.13	5.03	92	13	0
	10	96	3	20.95					
	11	75	1	20.80	16.25	4.28	78	22-1	0
	12mm	57	0	20.90					
	1am	37	0	20.90	15.30	4.72	86	14	0
	2	22	0	21.00					
	3	19	10	21.00	14.44	4.84	87	15-10	0
	4	36	5	21.20					
	5	52	5	20.20	15.01	4.72	84	14	0
	6	64	3	20.80					
	7	91	1	20.90	16.05	5.96	109	14-2	2
	8	106	2	21.00					
	9	107	6	21.10	16.36	5.03	93	14	2
	10	92	9	21.10					
	11	70	10	21.10	16.08	5.01	92	22-0	3
	12n	49	10	21.00					
	1pm	28	10	21.00	15.15	4.84	88	16	4
	2	9	10	20.70					
	3	0	10	21.20	13.91	4.81	86	18-4	4
	4	7	10	21.10					
	5	35	10	21.00	14.34			18	2
	6	55	9	20.85					
	7pm	73	9	20.90	15.22	4.91	89	15-8	2
31. vii - 1. viii	2pm	46	0	9.00	6.36	7.21	94	0	104
	3	40	0	8.90					
	4	33	0	8.90	5.66	7.19	93		
	5	36	0	8.70					
	6	39	0	8.70	5.03			2	103
	7	66	0	8.40					
	8	83	0	8.40	5.67	7.17	92		
	9	93	0	8.40					
	10	87	0	8.40		7.20		0	101
	11	95	0	8.60					
	12mm	78	0	8.50	7.67	6.26	82		
	1am	65	0	8.40					

Location: TAMAR RIVER - No. 4a - ROSEVEAR

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951			SKY						
31. vii-	2am	36	0	8.40	6.67	7.15	92	3	104
1. viii	3	29	0	8.20					
	4	21	8	8.10	5.97	7.20	92		
	5	12	10	8.10					
	6	21	10	7.10	5.26	7.28	90	22	114
	7	36	10	7.50					
	8	54	8	7.80	5.55	7.24	91		
	9	78	10	8.70					
	10	88	10	8.70	6.94	7.06	92	0	99
	11	93	10	8.90					
	12n	90	10	9.00	6.89	7.06	93		
	1pm	77	10	9.00					
	2	63	10	9.00	7.30	7.04	93	2	91

Location: DERWENT RIVER - No. 4 - OLD BEACH

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1951			SKY						
8-9.11	3pm	18	3	19.50	8.90	5.85	97	13-5	0
	4	14	6	19.60					
	5	12	4	19.80	7.48	6.20	101		0
	6	15	8	19.90					
	7	20	6	19.70	8.38	5.36	88	13-5	0
	8	28	7	19.20					
	9	34	7	19.20	9.36	5.54	91		0
	10	39	8	19.30					
	11	42	9	19.10	9.10			12-0	0
	12mm	43	7	19.00					
	1am	42	7	18.90	10.03	5.54	92		0
	2	35	3	18.95					
	3	30	0	18.50	7.56	5.65	91	9-6	0
	4	30	0	18.60					
	5	30	2	18.60	7.14	5.98	95		0
	6	33	7	18.70					
	7	37	5	18.65	6.98	5.83	93	12-0	0
	8	40	5	18.65					
	9	46	6	18.50	8.38				0
	10	51	9	19.10					
	11	53	9	19.10	8.18	5.87	95	9-10	0
	12n	48	9	19.40					
	1pm	40	9	20.70	7.58	5.55	92		0
	2	34	8	21.20					
	3	27	9	21.15	5.88	5.79	95	3-16	0
25-26.vii	3pm	93	8	6.50	0.35	7.43	85	9	19
	4	90	4	6.50					
	5	88	4	7.20	0.20	7.56	88	11	
	6	81	5	6.30					
	7	78	4	6.10	0.05	6.60	75	10	40
	8	72	5	6.20					
	9	67	5	6.20	0.05	7.06	81	5	
	10	66	10	6.20					
	11	73	7	6.30	0.04	6.46	74	14	41
	12mm	72	5	6.30					
	1am	75	2	6.50	0.13	6.82	78	14	

Location: DERWENT RIVER - No. 4 - OLD BEACH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1951			SKY						
25-	2am	78	0	6.20					
26.vii	3	81	0	6.30	0.10	7.19	82	11	43
	4	80	0	6.30					
	5	76	5	6.20	0.03	7.51	86	14	
	6	74	3	6.20					
	7	72	7	6.20	0.10	7.63	87	24	48
	8	72	8	6.30					
	9	72	5	6.50	0.11	6.96	80	38	
	10	73	4	6.50					
	11	76	2	6.50	0.10	7.28	84	9	39
	12n	82	5	6.80					
	1pm	87	8	6.80	0.10	6.52	75	12	
	2	92	5	6.80					
	3	93	9	6.80	0.07	6.55	76		49