

OCEANOGRAPHICAL STATION LIST

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

Volume 11

**Analyses of Bottom Deposits in
Eastern Australia, 1946-50**

Compiled by D. J. Rochford

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION, AUSTRALIA
MELBOURNE 1952**

SET UP AND REPRODUCED BY PHOTOLITHOGRAPHY BY C.S.I.R.O., 314 ALBERT ST., EAST MELBOURNE

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ANALYSES OF BOTTOM DEPOSITS IN EASTERN AUSTRALIA 1946-50

I. INTRODUCTION

As the investigation of estuarine hydrology by the C.S.I.R.O. Fisheries Division progressed it became apparent that the chemical composition of estuarine bottom deposits played a significant role in the productivity of this environment. It was clear also that rather rapid exchanges of material between the bottom deposits and their overlying waters occurred. A sampling programme, involving fairly frequent and persistent sampling of such bottom deposits, was therefore inaugurated.

The possibility of controlling estuarine productivity levels by enrichment of such bottom deposits was investigated at Shell Point, Georges River.

The general results to date of these bottom investigations and the interaction between the hydrological characteristics of the water and the chemical composition of the bottom, are discussed by Rochford (1951).

II. METHODS

Methods of analysis are the same as described by Rochford (1951).

III. UNITS

Interstitial phosphates are expressed in $\mu\text{g./g.}$ mud.

Adsorbed and total phosphates are expressed in $\mu\text{g./g.}$ silt.

Total ferric iron, organic carbon, and total nitrogen are expressed in mg./g. silt.

IV. LOCATION OF STATIONS

The locations of the sampling stations in the Shell Point intertidal region are shown in Figure 1. The remaining station locations are the same as those listed in Volumes 5-7 containing the corresponding estuarine hydrological data.

V. PERSONNEL

The laboratory analyses of the data have been the responsibility of Mr. D. J. Rochford and the hydrology staff at Cronulla. Messrs. C. Wirrell, H. Hollis, C. Brown, and G. Kitchen have been responsible for the field collections.

VI. REFERENCES

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

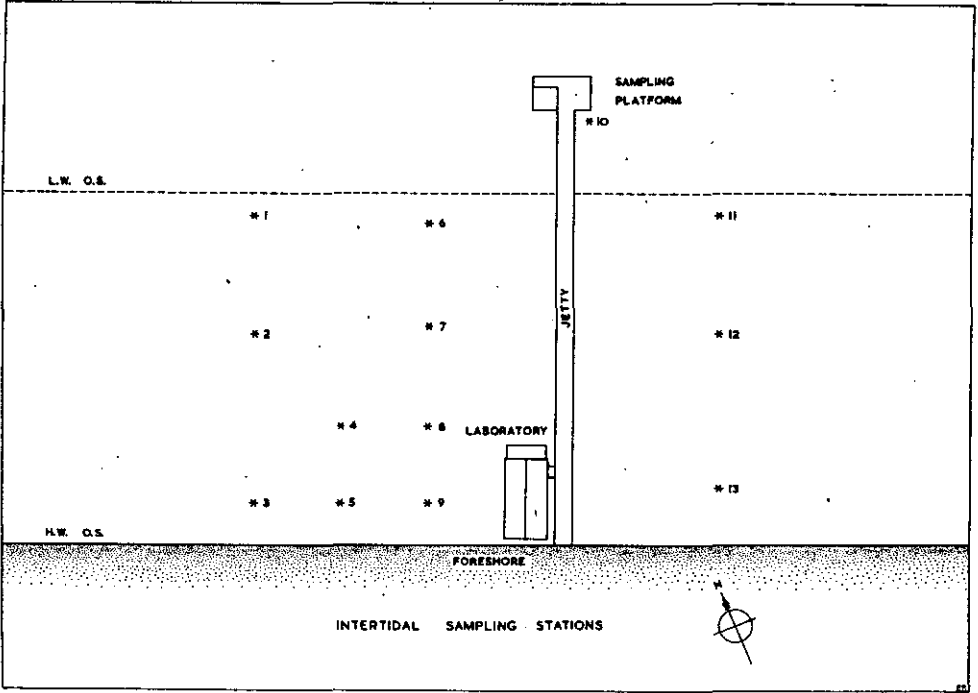


Fig. 1.—Locations of sampling stations in the Shell Point intertidal region.

Location: **NERANG RIVER, QUEENSLAND**

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
28. vii	3	9.0	208	1200	47.0	41	3.2	91
	4	0.2	179	960	55.5	12	0.9	5
14. viii	3	2.0	195	970	38.5	31	2.9	79
	4	0.5	208	1170	56.0	18	1.6	10
21. ix	3	3.0	98	850	47.5	22	1.8	24
	4	0.7	278	1270	61.5	17	1.4	6
1. xi	3	23.0	200	770	35.5	27	2.3	71
	4	0.6	226	1290	53.0	18	1.0	7
23. xi	3	8.0	48	970	40.0	31	3.0	34
	4	0.5	266	1470	52.0	18	0.7	3
15. xii	3	2.0	124	720	43.5	36	2.2	15
	4	0.1	225	1100	58.5	11	0.6	1

Location: MORETON BAY - BRISBANE RIVER, QUEENSLAND

Date	Station	Int. P.	Ada. P.	Total P.	Total Fe	Org. C.	Total N.	% Silc
1950								
4-	1a	2.0	39	720	49.5	19	1.2	14
5.vii	2a	0	0	990	14.5	33	0.3	0.5
3-	1a	3.0	94	820	19.5	31	2.3	28
4.viii	2a	1.0	115	950	26.0	20	1.5	2
	5	7.0	153	1070	41.5	19	1.6	66
5.ix	1a	1.0	66	700	48.5	33	2.0	21
	2a	4.0	42	660	73.0	23	0.8	21
	5	5.0	190	1140	51.5	16	2.1	42
3.x	1a	2.0	81	580	45.5	31	1.8	20
	2a	0.2	30	490	9.5	32	1.1	0.5
1.xi	2a	0	67	1300	13.0	40		2
	5	2.0	91	930	41.5	15	1.7	30

Location: LOGAN RIVER - MORETON BAY

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
3.viii	2a	3	6	535	62.0	13	0.8	19
	3	2	11	420	54.6	15	1.1	17
	4	3	29	665	63.2	19	1.2	12
	5	1	70	905	56.7	27	0.4	4
	7	5	82	750	9.9	17	1.8	90
	8		52		70.5	20	1.8	81
18-	4	5	42	435		8	1.3	19
20.x	5	6	105			16	1.3	51
	7	10	177	335		19	1.7	95
1950								
10-	1	1	12		16.0	18	1.2	4
13.i	2	0.4	0		7.9	24	2.0	2
	4	8	43	505	60.0	13	1.3	32
	5	0.3	121	665	57.6	14	1.0	24
	7	0	102	440	57.0	16	1.2	91
23-	1	0	17	170	0	30	0.8	1
24.iii	2	1	116	185	33.2	104	5.0	1
	4	6	74	585	43.2	16	1.4	21
	5	13	107	590	47.8	18	1.5	82
27.iv-	1	0	0	0	0	8	0.5	2
3.v	2	0.1	3	100	3.4	13	0.5	0.5
	4	5	17	625	40.6	19	2.3	9
	5	6	174	605	40.0	14	1.2	90

Location: LOGAN RIVER - MORETON BAY

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
14. vii	1	0.6	0	430	0	0	0	1
	4	4.0	67	1030	49.0	20	1.5	18
	5	5.0	249	1350	49.0	22	1.7	97
	6	7.0	200	1240	50.0	18	1.6	89
14. viii	4	4.0	89	980	41.5	21	1.3	10
	6	7.0	139	850	51.0	16	1.3	97
	7	5.0	181	850	41.0	15	1.3	76
13- 15. ix	4	4.0	63	1080	53.5	21	1.6	12
	5	15.0	311	1850	52.5	22	1.7	64
	6	6.0	112	900	50.0	20	1.5	91
	7	8.0	120	1310	66.0	18	1.7	94
12- 14. x	6	4.0	165	1020	52.0	14	1.1	80
	7	15.0	185	1100	51.0	17	1.6	96
24. x	6	10.0	230	1370	54.5	17	1.7	96
	7	7.0	126	1100	46.5	11	0.9	76
10- 11. xi	1	0.2	78	1290	0	45		1
	4	14.0	127	900	50.0	21	1.5	65
	5	7.0	54	620	45.5	28	1.1	84
6. xii	4	0.1	178	960	43.0	22	1.8	0.5
	5	5.0	192	870	48.0	15	1.6	82

Location: SOUTH LEASE - DUNWICH, QUEENSLAND

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silc
1950								
20.vii		0.5	46	880	36.5	40	3.2	9
18.viii		0.9	143	1220	27.5	41	3.7	7
7.ix		0.6	144	1270	30.0	30	4.5	4
17.xii		0	100	520	32.5	39	2.7	3

Location: NORTH LEASE - DUNWICH, QUEENSLAND

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
20.vii		1.0	66	940	27.5	39	2.8	7
16.viii		0	200	980	35.0	39	3.7	7
5.ix		0.4	73	850	29.5	34	2.9	7
13.xii		0.9	75	800	26.5	38	2.9	3

Location: RICHMOND RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1946								
31. viii	1	0.4	81	510	23.4	14	1.6	14
	2	2.4	95	605	24.4	24	2.1	12
	4	2.0	81	455	22.6	20	1.9	40
	5	0	81	330	20.5	11	1.1	58
	6	1.0	76	550	27.1	16	1.7	23
	7	3.3	205	880	35.3	16	1.7	56
	8	3.5	58	415	21.6	5	0.8	70
	9	2.5	54	190	14.4	8	1.1	83
	10	0	47	310	22.2	6	0.5	5
	11	9.6	228	1280	45.4	11	1.1	64
	12	1.0	25	315	15.6	12	1.4	48
	1948							
2-3. ii	1	0.6	0	620	9.3			2
	2	1.7	37	770	5.0	28	2.1	10
	3	4.7	4	460		16	1.1	14
	4	0	59	510	55.1	19	1.6	47
	6	8.0	209	880	28.8	17	2.1	53
	7	3.0	151		11.6	13	1.2	61
	8	2.8	240		67.0	14	1.2	43
	10	2.6	190	880	43.0	12	1.7	15
	11	1.3	93	860	60.3	14	0.8	14

Location: CLARENCE RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
2. ix	1	0.5	22	400	11.2	27	0.7	3
	2	3.2	33	260	15.7	24	1.8	45
	3	0.9	92	350	14.4	17	1.4	23
	4	1.7	68	310	12.2	16	1.5	85
	5	0	51	250	8.6	12	1.1	44
	6	0	66	500	20.3	22	1.5	84
	8	0.8	70	290	14.4	11	1.2	41
	9	0	61	595	18.9	19	1.4	13
	11	0	16	515	45.0		1.3	1
	12	0	72	360	16.4	18	1.7	55
	13	0	34	385	17.1	17	1.8	6
	14	0.2	77	540	18.5	39	3.8	4
	15	0.8	50	265	13.1	14	1.0	75
1948								
29. i-	1	0.5	0	135	5.0	30	0.8	3
1. ii	2	2.5	6	640	26.4	13	1.1	6
	3	10.0	51	230	2.7	24	2.0	74
	5	24.0	27	300	5.9	19	1.5	44
	6	16.0	90	295	13.9	18	0.8	70
	10	5.0	33	310	20.4	25	1.8	41
	12	0.3	108	520	37.0	8	1.0	6
	15	1.0	69	335	36.0	19	3.3	28

Location: MACLEAY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
22.viii	1	1.0	78	400	22.3	18	1.9	21
	2	0	39	280	8.6	26	2.1	78
	3	0.8	41	260	15.1	10	1.1	42
	4	0	53	480	18.0	20	1.2	21
	5	0.5	71	390	20.5	22	2.4	51
	6	0.7	39	315	13.7	20	2.1	74
	7	1.3	94	680	19.7	18	2.3	7
	8	1.0	79	580	17.0	24	2.1	23
	9	1.0	109	885	33.8	19	2.1	4
	10	0.4	57	420	16.0	25	2.5	37
1948								
26-27.i	1	2.0	62	560	32.0	24	1.6	18
	2	4.0	94	350	57.6	20	1.7	56
	5	2.0	93	220	46.6	21	2.0	67
	6	1.0	86	140	16.3	25	2.2	39
	7	5.0	186	740	37.2	37	1.6	4
	8	2.0	71	670	25.2	38	1.1	2
1949								
21.i	2	5.0	86	425	40.0	13	1.5	18
	6	1.0	36	180	16.5	6	0.7	45
	7	3.0	94	420	39.0	18	2.1	24
22.iii	2	14.0	145	395	42.0	24	2.2	96
	6	2.0	113	385	35.4	21	2.3	23
	7	2.0	126	870	56.0	21	2.9	4
25.iv	2	3.0	85	270	32.0	25	2.0	77
	6	0.5	55	320	45.4	21	1.8	26
	7	0.1	92	675	49.8	23	2.0	1
23.v	2	1.0	36	185	25.1	11	0.8	32
	6	1.0	41	220	27.8	12	1.1	34
	7	0.5	47	485	38.4	11	1.0	5
27-28. vi	2	3.0	50	385	8.1	26	2.0	53
	6	1.0	52	615	12.5	35	2.9	38
	7	1.0	88	370	37.4	19	1.6	22

Location: **MACLEAY RIVER**

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
29-30. vii	2	1.0	66	460	16.8	19	1.7	17
	6	0.1	55	430	49.9	37	3.1	4
	7	0.2	71	1470	54.6	25	1.8	0.5
24. x	2	3.0	93	190	26.0	23	1.9	46
	7	1.0	99	780	41.0	12	0.9	3
31. xi	2	1.0	147	285	46.2	18	1.6	13
	6	2.0	104	170	53.2	19	1.7	77
	7	5.0	118	750	47.5	11	2.1	11
1950								
10. i	2	1.0	124	290	44.8	17	1.7	16
	6	1.0	85	240	34.8	12	1.4	11
	7	6.0	61	775	39.6	14	1.8	20
2. iii	2	1.0	69	155	22.8	10	0.9	44
	6	3.0	74	250	24.5	16	1.3	43
27. iii	2	4.0	73	195	26.8	14	1.3	55
	6	0.1	56	700	32.0	30	2.7	0.5
15. ix	2	1.0	102	650	20.8	24	1.5	25
	6	2.0	100	645	34.8	18	2.5	48
1. xi	2	1.0	113	245	25.0	20	1.7	56
	6	4.0	111	475	31.9	16	1.7	53
14. xii	2	2.0	16	240	29.0	15	1.5	29
	6	4.0	57	275	25.8	12	1.8	52

Location: HASTINGS RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
19-20. viii	1	1.1	0	310	21.1	7	1.6	4
	2	0.2	33	270	17.1	23	1.4	23
	3	0	53	320	15.8	20	1.6	29
	4	1.9	55	385	29.5	3	0.7	47
	5	0	17	270	13.7	19	1.6	14
	5a	0.1	61	580	27.0	17	1.4	5
	6	0	29	590	34.2	16	2.2	7
1948								
24-25. i	1	0.1	20	260	13.6	32	0.8	.1
	2	0.5	74	385	26.4	25	1.0	4
	3	3.0	83	230	48.2	33	2.2	41
	4	2.0	23	80	6.0	2	0.3	76
	5a	2.0	102	130	28.0	4	0.7	51
	6	0.1	60	575	41.4	24	3.2	1

Location: MANNING RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt	
1946									
17.viii	2	1.5	68	430	17.4	26	1.6	38	
	3	0	65	500	22.6	14	1.0	0.5	
	4	0	36	245	9.6	7	0.8	33	
	6	6.2	60	275	13.7	21	2.1	77	
	7	0	0	530	28.4	12	2.1	18	
	8	1.6	42	320	16.4	25	2.4	32	
	9	0	63	580	19.4	20	1.8	17	
	10	0	64	565	34.0	9	1.3	4	
	11	0	8	235	15.8	6	0.7	8	
	1948								
	22-23.i	1	7.0	23	840	19.6	23	2.5	12
3		2.0	118	340	27.2	17	1.3	38	
6		1.0	99		55.0	7	1.6	19	
7		1.5	127	225	19.8	30	2.5	55	
9		6.0	107	580	26.5	34	3.0	87	
1949									
24.i	1	0	37	480	4.4	11	1.2	22	
	6	2.0	37	290	20.7	10	0.9	19	
	9	1.0	40		16.0	12	3.2	2	
28.iii	1	2.0	114	1280	28.4	21	4.3	1	
23.iv	1	1.0	56	755	30.8	45	3.1	2	
	6	2.0	216	1370	53.2	18	3.6	1	
25.v	1	0.4	16	280	10.0	17	0.7	5	
	6	0.5	80	405	20.2	2	0.6	4	
	9	0	106	1010	62.1	28	2.3	0.5	
1.vii	1	5.0	13	470	3.5	20	2.5	24	
	6	1.0	62	645	26.5	29	1.6	6	
	9	0.1	50	500	20.0	60	3.7	0.5	
7.viii	1	7.0	2	570	30.2	13	1.4	37	
	6	6.0	62	335	54.0	38	2.2	65	
	9	0.4	50	830	57.0	33	2.2	5	

Location: MANNING RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
3. ix	1	3.0	19	250	23.0	19	2.2	11
	6	2.0	75	800	67.6	36	2.6	10
26. x	1	5.0	34	550	28.0	19	2.0	13
	6	1.0	193	630	54.0	35	2.6	8
5. xii	1	13.0	94	255	40.0	25	2.7	29
	6	3.0	324	1345	67.2	25	2.0	3
	9	1.0	132	500	60.5	24	2.8	7
1950								
5. i	1	9.0	29	395	34.0	17	2.0	19
	6	3.0	55	950	42.5	11	2.9	2
	9	1.0	90	300	48.2	29	2.2	5
28. ii	1	8.0	34	590	17.6	21	1.2	12
	6	0	161	230	34.6	26	2.3	49
	9	0	406	1675	93.0	74	6.5	0.5
25. iii	1	5.0	26	565	22.2	20	2.5	14
	6	0.5	422	2110	99.0		5.6	0.5
	9	1.0	92	315	26.6	18	1.5	26
24-26. viii	1	5.0	27			18	2.1	10
	6	1.0	112	270	37.3	30	2.6	49
6. xi	1	0.3	60		13.3	25	1.2	1
	6	1.0	109	470	28.0	16	1.9	9
	9	2.0	118	755	33.5	30	2.8	22
17. xii	1	9.0	218	1140	29.5	22	4.1	5
	6	1.0	117	475	38.8	13	1.8	5

Location: PORT STEPHENS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1947								
20-21. v	2	1.3	23	440	22.3	25	2.7	8
	3	2.0	42	430	19.3	15	1.9	20
	4	1.8	34	420	18.6	29	2.6	9
	5	0.6	59	380	16.7	23	2.3	15
	7	0	21	655	12.0	18	1.8	6
	8	0	118	670	27.7	30	3.3	8
	9	0.4	11	330	19.4	29	2.3	11
	9a	0	86	515	16.8	17	2.5	8
	10	0	24	180	10.6	10	0.8	39
	11	0	33	280	14.0	11	1.4	93
	12	0	39	325	16.2	20	1.6	23
11. ix	13	0.8	22		11.9			43
	14	0	43		24.5			11
	15	0.9	4		18.7			51

Location: TILLIGERRY CREEK

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
7. vi	1	0.4	48	560	27.4	30	2.4	9
	1a	1.0	41	505	40.2	31	2.1	13
	1b	0	54	615	27.6	30	2.9	0.5
	2	1.0	122	1032	53.9	39	2.8	5
11. x	1	1.0	88	355	36.0	31	2.5	9
	1a	2.0	112	610	36.0	37	3.5	11
	1b	1.0	55	510	29.0	33	2.5	9
	2	5.0	162	510	67.0	48	3.2	18
5. xi	1	2.0	38	640	58.5	34	2.4	25
	1a	1.0	55	600	64.8	31	2.8	12
	1b	1.0	30	505	63.4	32	2.5	15
	2	4.0	142	700	5.3	48	3.7	81
1. xii	1	1.0	38	425	42.6	33	1.9	23
	1a	1.0	99	580	31.5	30	4.3	8
	1b	2.0	165	510	55.0	44	4.7	23
	2	1.0	197	490	60.2	61	3.5	31
1950								
17. i	1	0	65	600	33.5	31	2.2	17
	1a	3.0	81	650	34.0	33	2.4	36
	1b	0	57	575	32.4	32	2.6	26
	2	1.0	135	600	57.6	44	3.5	14
18. ii	1	1.0	57	535	32.8	35	3.5	7
	1a	1.0	45	505	39.1	47	3.8	10
	1b	1.0	53	520	46.8	34	3.0	10
	2	1.0	113	660	46.9	54	5.4	12
17. iii	1	1.0	44	610	57.6	21	1.7	14
	1a	1.0	135	865	24.5	33	2.7	7
	1b	2.0	157	730	35.2	30	2.1	14
	2	0	88	890	66.2	52	3.0	15
20. v	1	1.0	67	320	3.4	28	2.2	17
	1a	1.0	67	320	8.7	26	2.1	9
	1b	1.0	67	300	2.4	26	2.1	17
	2	1.0	133	550	5.2	49	3.3	40

Location: TILLIGERRY CREEK

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
19.vii	1	2.0	64	505	31.0	32	2.7	10
	1a	1.0	74	520	12.0	25	2.0	6
	1b	1.0	96	550	25.0	30		12
	2	4.0	224	630	39.0	56	3.5	55
27.viii	1	5.0	131	295	20.5	31	2.7	20
	1a	0.7	110	425	26.6	33	2.5	12
	1b	1.0	108	490	22.0	30	2.6	19
	2	0.3	199	870	37.0	45	3.2	7
24.ix	1	6.0	124	610	25.8	34	2.4	23
	1a	1.0	78	490	33.0	40	2.7	17
	1b	2.0	110	475	25.0	38	2.5	15
	2	1.0	250	770	38.4	53	3.1	6
9.xi	1	0	91	350	22.0	35		10
	1a	2.0	162	525	24.9	36	3.3	12
	1b	2.0	147	420	29.0	25	3.9	9
17.xii	1	1.0	60	320	22.7	30	2.5	7
	1a	4.0	117	360	23.8	29	2.6	12
	1b	8.0	169	390	20.6	27	2.4	10
	2	3.0	103	380	38.4	37	2.8	19

Location: HAWKESBURY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1947								
17-20. vi	1	0.4	0	112	5.6	17.0	3.7	4
	3	0.0	47	712	20.0	21.0	2.0	6
	4	0.0	0	200	13.0	9.0	1.1	4
	5	0.0	35	317	18.0	16.0	1.1	84
	6	0.0	48	389	19.7	17.0	1.5	89
	7	0.0	37	361	11.2	19.0	1.4	61
	8	0.0	30	274	8.9	18.0	1.0	59
	9	0.0	27	295	9.2	21.0	2.4	96
	10	0.0	24	331	16.6	21.0	1.5	48
	11	0.0	29	269	17.2	20.0	1.5	72
	13	0.0	6	317	18.0	20.0	1.2	44
	15	0.0	0	274	18.2	25.0	1.6	80
	17	0.0	0	279	10.9	24.0	2.3	88
	18	0.0	0	470	11.3	56.0	3.0	5
	19	0.0	0	384	14.1	29.0	2.3	21
	20	0.0	0	582	18.5	32.0	2.4	13
	22	0.0	0	510	14.2	31.0	2.6	14
24	0.0	0	568	17.6	37.0	2.8	28	
1949								
24-25. ii	3	1.0	42	504	25.2	56.0	3.3	3
	11	4.0	76	144	22.8	25.0	0.4	75
	15	2.0	98	158	30.2	33.0	1.9	66
	21	4.0	48	302	7.2	9.0	1.5	65
2- 4. v	1	1.0	42	498	17.0	19.0	1.7	7
	3	3.0	31	540	18.0	84.0	3.2	16
	6	7.0	29	350	36.0	18.0	1.2	83
	8	2.0	40	350	41.3	25.0	2.0	25
	9	3.0	55	223	45.3	25.0	1.4	93
	11	0.0	48	78	37.4	24.0	1.5	91
	15	1.0	65	136	34.0	35.0	1.8	66
21	1.0	27	253	34.0	26.0	1.6	17	

Location: HAWKESBURY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
12-15. vii	1	2.0	26	594	11.8	18.0	1.8	8
	3	10.0	88	864	24.0	65.0	4.1	58
	6	5.0	27	334	28.6	26.0	1.4	84
	8	2.0	27	218	29.5	23.0	1.8	38
	9	1.0	29	302	25.2	30.0	1.9	56
	11	0.0	40	308	4.0	31.5	1.9	35
	15	1.0	57	205	30.0	24.0	1.8	83
	21	1.0	35	285	13.5	22.0	1.4	55
28-30. ix	1	0.1	29	470	20.2	35.0	2.2	0.5
	3	22.0	138	653	41.3	53.0	2.5	83
	6	6.0	56	193	37.8	16.0	1.1	57
	8	10.0	103	340	52.7	30.0	1.3	61
	9	2.0	34	203	51.8	26.0	1.6	40
	11	2.0	51	562	52.0	28.0	1.6	20
	15	3.0	51	296	54.8	32.0	1.7	49
	21	0.3	79	251	30.0	41.0	2.5	10
21-23. xi	3	3.0	178	941	25.9	85.0	4.2	9
	5	5.0	79	180	40.5	19.0	1.3	82
	9	3.0	55	214	49.3	23.0	1.4	82
	11	3.0	70	224	49.3	31.0	1.5	75
	15	1.0	113	327	46.8	33.0	1.7	40
	21	0.3	100	143	39.2	29.0	1.9	17
1950								
20. i	1	7.0	34	576	36.0	40.0	3.0	8
	3	2.0	169	800	35.0	58.0	3.5	19
	6	2.0	66	263	30.9	17.0	1.4	23
	8	1.0	90	318	30.0	33.0	2.0	11
	9	3.0	101	287	50.0	21.0	1.6	80
	11	1.0	75	276	33.3	27.0	1.2	35
	15	1.0	25	244	33.8	24.0	1.7	39
	21	0.0	74	402	17.7	33.0	1.9	46

Location: HAWKESBURY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
22-23. ii	1	0.3	9	383	24.1	32.0	2.3	1
	3	2.0	77	378	35.2	43.0	1.5	67
	6	0.0	79	409	40.3	41.0	2.0	20
	8	0.4	118	693	40.3	77.0	4.6	12
	9	1.0	122	1016	27.7	81.0	5.1	5
	11	3.0	66	304	38.6	40.0	1.6	33
	15	1.0	65	630	40.6	67.0	2.6	5
	21	0.5	62	243	42.6	30.0	2.5	38
28-30. iii	1	24.0	2	598	29.2	53.1	2.8	62
	3	0.4	193	1056	22.4	70.0	3.8	1
	6	4.0	73	243	26.7	14.5	1.3	69
	8	1.0	98	445	34.4	27.7	2.1	59
	9	1.0	106	223	32.0	29.0	1.8	42
	11	2.0	94	467	32.7	12.5	1.5	24
	15	0.2	185	658	39.2	48.3	2.9	11
	21	0.3	40	84	9.8	25.0	1.6	34
19-21. iv	1	8.0	25	554	26.4	32.0	2.8	15
	3	3.0	155	650	28.0	67.0	2.9	14
	6	4.0	80	431	29.1	23.0	1.2	28
	8	2.0	59	212	17.0	21.0	1.2	80
	9	3.0	103	249	29.2	25.0	1.5	87
	11	3.0	115	280	25.8	27.0	1.3	48
	15	2.0	126	238	28.8	29.0	1.8	81
	21	0.2	116	223	31.6	32.0	1.7	55
23. vi	21	0.0	72	305	18.4	22.0	1.6	67
17-19. vii	3	3.0	154	609	24.4	51.0	2.5	40
	6	26.0	47	561	31.6	23.0	1.2	67
	8	3.0	80	487	20.3	34.0	1.9	40
	9	2.0	110	356	43.1	31.0	0.6	29
	11	2.0	86	281	21.8	19.5	0.5	24
	15	6.0	91	371	23.8	35.0	0.9	76
	21		53	223	32.6	24.0	1.4	

Location: HAWKESBURY RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1950								
14. viii	1	1.0	35	616	25.0	40.0	2.0	3
	3	3.0	70	524	23.8	45.0	2.6	19
	6	5.0	44	493	18.6	29.0	1.4	23
	8	3.0	78	295	34.3	21.0	1.3	42
	9	1.0	82	232	34.2	25.0	1.1	7
	11	3.0	30	151	15.4	26.0	1.3	63
	15	0.5	34	95	26.0	27.0	2.0	73
	21	1.0	110	436	28.6	45.0	2.6	40
18. ix	1	6.0	0	466	9.0	32.0	1.9	16
	3	11.0	101	994	31.3	52.0	3.2	20
	6	5.0	84	547	38.4	33.0	1.8	24
	8	5.0	48	316	13.6	23.0	2.1	42
	9	5.0	71	576	46.8	34.0	2.3	17
	11	0.0	65	113	28.1	29.0	1.5	65
	15	2.0	8	194	31.7	30.0	2.1	71
	21	2.0	28	530	21.8	26.0	1.6	32
	21	2.0	79	570	9.2	28.0	2.0	25
13-17. xi	1	1.0	27	416	15.9	16.6	0.4	5
	3	26.0	72	636	12.9	41.0	2.4	74
	6	5.0	85	638	33.0		1.8	21
	8	4.0	36	470	13.9	22.0	1.4	27
	9	2.0	77	662	40.3	30.0	1.9	25
	11	6.0	41	400	13.6	25.0	1.7	76
	15	4.0	30	373	14.3	20.0	1.7	73
	21	0.0	60	350	15.2	11.0	1.2	19
	21	0.0	76	335	16.2	13.0	1.1	11

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1947								
23. vi	1	3.6	44	420	4.5	25	7.0	8
	2	2.4	35	480	6.4	35	8.3	4
	3	10.0	22	580	5.1	55	7.2	9
	4	0	70	820	7.9	47	9.4	9
	6	0	43	315	12.7	24		4
	8	0.7	44	310	22.6	22	3.1	18
	8a	0	53	260	20.5	29	2.4	67
	9	0	76	495	29.5	28	3.8	2
	9a	0	56	370	28.0	40	4.0	19
	10	0	53		12.4	10	3.4	15
	11	0	77	510	25.6	24	2.7	16
	12	0	65	615	18.6	22	3.1	10
	14	0	94	645	38.9	22	3.7	6
	16	0	0	300	11.3	19	1.1	21
	17	0	0	145	3.6	24	1.9	32
	19	0	0	200	9.9	32	2.4	46
	21	0	0	70	4.9	40	3.9	7
1949								
8-9. ii	1	2.0	48	805	7.8	19	2.6	8
	11	1.0	104	910	26.4	35	3.5	3
20-21. iv	1	0.1	59	635	13.9	30	1.7	0.5
	11	1.0	75	480	50.0	25	1.9	12
9-12. v	1	1.0	26	570	11.0	25	2.4	7
	11	0.4	65	440	25.2	23	2.1	16
10. vi	1	1.0	30	675	14.4	28	3.0	4
	11	0.1	105	865	48.0	26	2.5	3
20. vii	1	3.0	60	630	1.3	18	2.0	28
	11	2.0	55	730	6.7	24	2.4	45
20. ix	1	0.1	65	910	7.6	29	1.8	0.5
	11	0.4	122	800	44.0	9	2.3	7
	21	0	28	415	38.5	26	1.6	1

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Sift
1949								
14-16.	1	1.0	118	590	5.3	37	2.9	4
xi	11	0.3	191	490	48.0	32	2.7	16
	21	0.2	136	625	44.8	36	2.2	4
1950								
10-11.	1	2.0	84	600	10.6	25	1.8	8
i	11	2.0	75	550	40.6	23	1.7	89
8-14.	1	1.0	73	145	49.3	32	1.9	8
ii	11	1.0	92	510	40.9	23	1.8	41
	21	0	96	740	68.0	69	3.4	1
7.iii	21	0.4	71	730	36.5	17	1.2	4
5-6.	1	8.0	362	1185	31.2	7	1.4	9
iv	11	1.0	89	350	29.0	27	1.6	17
2-3.	1	4.0	0	270	3.8	17	1.7	4
v	11	3.0	105	290	1.6	25	1.6	24
	21	0.2	118	1000	14.3	54	1.1	1
5.vi	1	1.0	103	250	5.0	19	3.0	1
3-4.	1	0	35	125	7.5	9	1.1	0.5
vii	11	2.0	155	410	34.7	32	2.2	24
31.vii	11	3.0	191	645	37.5	29	2.2	44
4.ix	1	11.0	68	380	11.8	27	1.3	31
5-6.	1	0.4	132	610	7.2	24	1.3	2
x	11	0.5	105	960	33.4	44	2.9	4
31.x-	11	3.0	51	255	20.2	49	2.3	25
1.xi	21	5.0	79	685	48.8	32	3.2	22
28-29.	11	2.0	112	750	16.6	63	2.9	2
xi	21	1.0	118	490	27.6	29	2.8	14

Location: SHELL POINT MARSH

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
6. viii	1	2	139	845	39.4	64	5.3	22
	2	1	126	855	35.0	68		38
	3	0.8	108	680	28.5	62	5.6	24
	4	1	125	1125	29.5	62	5.6	12
21. ix	1	0	83	560	63.8	58	4.9	47
	2	9	50	580	76.0	49	4.7	53
	3	8	45	460	53.0	59	4.8	20
	4	2	104	805	41.8	60	5.7	7
19. x	1	1	108	980	36.0	60	4.8	23
	2	6	127	805	38.9	56	6.4	36
	3	6	121	810	36.9	68	6.1	21
	4	4	107	825	29.8	49	4.5	8
23. xi	1	5	157	490	33.2	55	4.0	30
	2	2	32	305	34.0	54	3.9	67
	3	2	123	990	30.4	62	5.9	15
	4	2	96	700	25.4	56	4.6	7
1949								
10. i	1	4	104	575	15.0	62	4.8	11
	2	3	196	1200	24.0	110	8.2	15
	3	5	129	960	18.4	66	5.5	11
	4	2	69	645	18.4	14	2.3	4
9. ii	1	2	159	620	34.7	71	6.0	10
	2	1	73	215	8.1	29	2.7	18
	3	3	145	610	32.0	69	6.0	14
	4	5	97	980	38.3	68	5.1	7
9. iii	1	1	67	895	34.7	86	10.6	4
	2	3	60	1030	24.8	109	8.9	14
	3	2	97	835	28.6	59	5.2	5
	4	0.5	111	830	35.2	65	7.4	2
7. iv	1	0.5	106	1010	45.4	66	5.3	8
	2	3	73	840	28.6	61	4.7	9
	3	2	155	1230	45.0	185	7.2	9
	4	5	27	335	26.0	66	5.5	16

Location: SHELL POINT MARSH

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
11. v	1	1	109	670	22.4	65	5.8	13
	2	1	48	535	27.0	62	4.6	10
	3	1	145	660	27.6	56	4.8	16
	4	1	147	765	36.0	52	5.6	7
28. vi	1	2	61	850	22.8	65	6.0	16
	2	1	43	950	36.0	59	5.8	10
	3	1	53	1000	33.5	69	6.3	9
	4	1	75	1055	36.5	81	6.2	8
31. viii	1	2	44	870	37.0	75	6.7	6
	2	1	64	1010	15.0	75	6.9	9
	3	2	88	1135	12.6	66	6.4	10
	4	1	252	860	49.3	77	7.8	8
8. xii	1.S	3	27	705	9.3	72	4.5	10
	1.D	2	20	455	40.8	104	5.3	14
	2.S	1	132	700	21.7	59	4.4	10
	2.D	2	20	360	42.7	110	4.4	17
	3.S	6	86	870	13.0	90	6.6	17
	3.D	1	20		30.6	97	4.1	10
	4.S	0	7	495	11.2	48	3.3	2
	4.D	0	68	735	50.4	106	4.8	2
1950								
22. ii	1.S	3	246	785	32.0	110	9.0	16
	1.D	0	84	700	27.7	140	7.6	1
	2.S	5	224	625	46.7	79	6.8	18
	2.D	3	30	545	33.5	112	6.2	14
	3.S	10	126	1095	34.0	81	7.0	9
	3.D	2	29	450	45.9	134	1.2	9
	4.S	0	26	730	12.0	52	6.3	7
	4.D	5	75	650	50.4	104	6.3	13

Location: SHELL POINT MARSH

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
4. v	1. S	3	102	950	39.4	74	7.3	21
	1. D			190	6.1	31	1.5	15
	2. S	2	31	235	9.2	17	1.9	22
	2. D	0	10	325	5.4	47	2.4	9
	3. S	0	153	1115	31.4	94	8.1	0
	3. D			110	2.2	8	0.7	24
	4. S	7	176	1225	24.0	79	10.1	23
	4. D	27	66	720	16.0	75	3.6	57
3. vii	1. S		170	880	18.9	71	5.2	
	1. D	3	69	610	44.9	165	7.6	8
	2. S	1	93	945	15.6	64	5.9	13
	2. D		140	750	25.0	167	8.0	
	3. S			570	5.6	49	3.1	0
	3. D	4	46	610	18.7	79	5.2	13
	4. S			850	21.6	60	6.5	8
	4. D	2	42	465	22.3	85	3.8	6

Location: SHELL POINT EXPERIMENTAL TANKS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
11. vi	1	7	375	1250	37.8	74	6.0	14
12. vii	1	21	653	1420	50.9	56	3.8	15
17. viii	1	4	233	910	37.0	54	3.6	13
13. ix	1	1	102	580	30.8	44	3.4	12
19. x	1	36	422	1665	29.0	53	4.5	16
23. xi	1	7	269	1065	32.6	55	4.3	12
1949								
9. ii	1	22	223	890	18.5	53	4.9	22
9. iii	1	10	286	660	25.5	42	3.6	14
7. iv	1	23	499	1560	50.0	62	4.4	11
11. v	1	4	309	580	39.7	56	4.6	12
28. vi	1	4	140	940	37.8	72	5.1	14
31. viii	1	3	213	650	28.9	78	6.3	11
1950								
22. ii	1	15	663	1055	50.0	75	7.1	11
	4	7	181	1010	15.0	111	8.1	13
	5	13	320	1280	15.0	113	6.7	8
4. v	1	4	216	390	7.7	14	1.3	23
	4	20	311	1050	7.2	153	12.1	18
	5	0.4	258	1300	13.3	144	4.2	0.5
3. vii	1		283	1000	19.0	87	5.0	
	4	0.4	63	415	21.3	52	3.9	12
	5		170	920	12.2	99	5.6	

Location: SHELL POINT EXPERIMENTAL TANKS

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1950								
17.x	1	5	280	1070	17.8	39	3.1	10
	4	14	250	1460	11.5	106	9.4	7
	5	24	325	1380	11.6	88	5.5	13

Location: SHELL POINT OYSTER LEASE

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
11. vi	1a		66	470		16	2.9	80
	1b		80	375		14	2.0	73
	1c		75	440		19	2.0	63
	2a		108	640		16	2.8	17
	2b		86	370		17	2.0	14
	2c		63	460		12	2.6	16
	Ea		60	445		15	3.4	84
	Eb		40	180		7	1.3	42
	Ec		33	250		11		54
29. vii	1a	7	43	385		24	2.1	70
	1b		62	485		21	2.5	
	1c	0	43	410		24	1.8	66
	2a	0	47	345		20	1.8	
	2b	0	58	430		23	2.4	9
	2c	0	51	520		16	1.8	20
	Ea	0.7	67	545		24	2.2	73
	Eb	0.5	47	425		16	1.6	48
	Ec	2	28	230		16	1.4	48
28. viii	1a		41	360	15.0	29	2.3	
	1b	6	33	260	9.0	17	1.8	61
	1c		51	380	11.0	19	2.5	
	2a		40	255	10.0	17	1.7	
	2b	15	27	415	10.0	19	2.5	25
	2c		38	240	9.0	18	1.8	
	Ea		28	215	8.0	12	1.3	
	Eb	2	21	160	7.0	10	1.1	60
	Ec		53	360	15.0	24	2.4	

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
25. ix	1a. S	0.8	35	230	5.0	13	1.5	26
	1a. D		43	510	30.1	36	3.1	
	1b. S		54	315	11.0	16	1.7	
	1b. D	0	28	310	19.3	23	2.4	
	1c. S		24	230	9.4	17	1.4	
	1c. D	0	28	375	16.4	31	2.7	
	2a. S	5	21	240	7.0	19	2.0	57
	2a. D		27	440	22.8	49	3.2	
	2b. S	4	36	290	13.0	20	2.4	60
	2b. D		27	345	18.2	49	2.4	
	2c. S		28	250	11.6	20	2.2	
	2c. D		17	330	22.3	27	3.1	
	Ea. S	2	37	290	8.0	15	1.6	50
	Ea. D		31	460	24.4	47	3.3	
	Eb. S	2	29	230	5.0	12	1.2	47
	Eb. D		32	390	22.2	43	3.0	
	Ec. S	3	25	200	6.1	11	1.0	53
	Ec. D	0	24	355	12.0	34	2.3	
22. x	1a. S	11	79	355	24.0	44	3.7	84
	1a. D	0	43	345	20.0	20	2.6	33
	1b. S	40	57	425	19.0	32	2.6	90
	1b. D	0	47	170	31.0	46	2.9	42
	1c. S	6	52	360	16.0	30	2.7	77
	1c. D	0	56	190	35.0	48	3.1	44
	2a. S	0	33	260	4.0	39	1.8	27
	2a. D	0	42	430	13.0	30	2.7	28
	2b. S	0	66	330	9.0	36	1.7	29
	2b. D	0	35	260	14.0	26	2.6	32
	2c. S	0	58	280	10.0	32	1.4	25
	2c. D	0	48	420	15.0	36	3.0	
	Ea. S		39	190	8.0	19	1.6	
	Ea. D	0	39	240	19.0	36	2.7	
	Eb. S		44	180	8.0	16	1.3	
	Eb. D	0	43	280	16.0	45	2.6	
	Ec. S		41	165		11	1.1	
	Ec. D	0	25	220	14.0	24	1.6	

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Sift	
1946									
2. xii	1a. S	0	23	230	11.0	16	1.3	16	
	1a. D	0	51	470	26.0	48	3.6	31	
	1b. S	0.5	53	330	11.0	17	1.6	24	
	1b. D	0	49	525	29.0	63	4.6	52	
	1c. S	0	50	365	14.0	19	1.6	27	
	1c. D	0	33	250	10.0	40	2.9	24	
	2a. S	0	55	330	17.0	26	2.7	90	
	2a. D	0	35	240	13.0	36	2.6	39	
	2b. S	0	38	390	13.0	30	3.1	80	
	2b. D	0	9	415	21.0	52	3.2	42	
	2c. S	0	53	425	16.0	26	2.4	81	
	2c. D	0	10	415	23.0	40	3.0	47	
	Ea. S			27	215	8.0	14	1.6	
	Ea. D	0		19	505	26.0	57	3.8	
	Eb. S	0		23	205	6.0	11	1.0	
	Eb. D	0		12	350	11.0	40	2.5	
	Ec. S			21	160	6.0	9	1.0	
	Ec. D	0		10	260	13.0	27	2.7	
1947									
3. ii	1a. S	1	58	360	14.0	28	3.0	73	
	1a. D		19	320	21.0	37	3.2		
	1b. S	3	19	370	11.0	25	2.2	73	
	1b. D	1	19	355	20.0	40	3.2	52	
	1c. S	1	41	360	13.0	16	1.7	66	
	1c. D	0	15	415	21.0	55	3.8	37	
	2a. S		112	690	26.0	39	2.7		
	2a. D	0	27	430	22.0	45	3.7	25	
	2b. S	13	70	770	26.0	23	4.3	87	
	2b. D	0.5	58	320	16.0	30	3.5	23	
	2c. S	0	68	410	13.0	28	2.5	26	
	2c. D	0	41	350	17.0	37	2.9	23	
	Ea. S			29	260	13.0	21	2.3	
	Ea. D			24	385	19.0	39	3.4	
	Eb. S			15	215	8.0	17	1.8	
	Eb. D			23	375	26.0	36	2.1	
	Ec. S			23	360	15.0	24	2.3	
	Ec. D	0		15	250	14.0	26	1.9	

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1947								
24. iii	1a. S	0.8	61	365	19.0	36	3.2	75
	1a. D	0.3	15	430	24.0	52	3.2	34
	1b. S	10	28	215	10.0	18	1.8	80
	1b. D	0	40	430	19.0	45	2.9	41
	1c. S	0.7	59	360	13.0	22	2.1	70
	1c. D	2	37	385	19.0	45	2.7	40
	2a. S	2	82	455	21.0	42	3.6	55
	2a. D	0	53	425	23.0	45	3.6	28
	2b. S	2	19	490	22.0	36	3.5	76
	2b. D	0.6	41	260	15.0	30	2.8	29
	2c. S	0	65	345	9.0	29	2.7	40
	2c. D	0	49	320	19.0	39	2.8	25
	Ea. S		31	180	8.0	13	1.2	
	Ea. D		45	335	16.0	37	2.1	
	Eb. S		36	200	10.0	17	1.7	
	Eb. D		32	250	16.0	39	2.6	
	Ec. S		38	275	10.0	19	2.0	
	Ec. D		14	310	17.0	39	2.5	
27. v	1a. S	0.5	49	345	12.2	26	2.7	51
	1a. D	0	27	410	18.6	43	2.8	29
	1b. S	0.8	74	395	11.5	29	2.6	78
	1b. D	0	37	370	20.8	39	3.3	27
	1c. S	2	48	310	12.2	24	2.8	53
	1c. D	0	29	420	17.3	38	2.6	24
	2a. S	0	49	330	8.3	24	2.6	70
	2a. D	1	30	435	15.0	52	3.4	47
	2b. S	0.7	45	310	9.7	26	2.7	65
	2b. D	2	22	345	17.6	40	3.2	40
	2c. S	1	41	295	13.0	22	2.1	59
	2c. D	1	22	360	18.0	38	2.9	39
	Ea. S	0	38	260	6.6	24	2.6	68
	Ea. D	2	27	430	10.2	42	3.3	39
	Eb. S	0	33	200	7.7	14	1.4	74
	Eb. D	3	20	345	15.6	33	2.2	37
	Ec. S	2	20	370	16.8	36	2.1	32
	Ec. D	2	37	180	10.2	19	2.2	85

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1947								
2. viii	1.S	3	19	255	11.9	32	2.6	42
	1.D	1	23	330	16.0	41	3.6	33
	2.S	0	51	265	12.3	32	5.3	30
	2.D	0	40	385	38.4	42	3.6	25
	3.S	0	88	520	17.5	32	3.5	3
	3.D	0	54	380	57.0	66	3.9	16
	6.S	3	165	680	22.8	36	3.9	18
	6.D	1	33	325	18.0	45	4.8	28
	7.S	0	59	415	19.2	52	5.3	83
	7.D	0	36	325	14.0	53	5.2	15
	9.S	11	35	1310	22.7	58	7.9	6
	9.D	14	24	465	34.4	55	5.2	29
	11.S	1	97	670	33.0	38	4.5	11
	11.D	1	28	470	40.9	44	3.8	24
	12.S	0	55	480	36.9	46	3.5	16
	12.D	0	56	420	15.4	39	5.3	23
	13.S	0	87	635	31.8	46	3.0	20
	13.D	1	17	385	44.4	42	3.6	24
26. ix	1.S	0	69	220	21.7	22		50
	1.D	1	51	500	38.5	44		28
	2.S	21	124	420	23.7	42		44
	2.D	2	71	670	34.0	52		24
	3.S	1	32	370	12.4	21		7
	3.D	11	7	615	44.2	69		13
	6.S	0	92	565	30.7	36		18
	6.D	1	39	510	39.4	36		28
	7.S	54	140	1135	37.2	46		88
	7.D	2	69	670	26.8	50		12
	9.S	5	136	1100	29.4	45		6
	9.D	13	14	540	32.0	66		15
	10.S	3	75	610	37.2	41		41
	11.S	0	105	740	35.1	42		12
	11.D	1	32	490	42.0	32		32
	12.S	4	99	885	26.9	42		13
	12.D	2	23	250	43.0	43	3.1	20
	13.S	7	107	590	24.0	57	6.5	29
	13.D	2	20	520	51.0	42	6.4	17

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1947 28. x	1. S	16	135	240	20.1	23		63
	1. D	3	36	305	32.5	41	3.6	22
	2. S	6	49	450	33.1	43	5.8	25
	2. D	18	377	675	20.2	36	5.2	38
	3. S	2	58	365	16.8	29	3.8	10
	3. D	6	9	470	38.9	77	4.2	8
	6. S	0	106	620	18.8	35	4.4	8
	6. D	2	24	515	17.1	39	3.1	29
	7. S	9	135	855	12.4	52	4.7	69
	7. D	2	43	670	21.8	60	5.2	20
	9. S	4	328	1140	30.0	52	7.0	11
	9. D	0	39	325	29.7	68	4.3	25
	10. S	5	67	435	32.0	48	6.9	30
	11. S	3	126	825	30.6	38	6.3	19
	11. D	0	16	270	29.7	45	2.8	29
	12. S	0	64	460	35.2	42	5.3	12
	12. D	2	16	365	43.8	45	3.7	28
	13. S	0	72	390	19.8	50	3.3	33
	13. D	0	48	535	37.2	69	5.0	23
	24. xi	1. S	7	45	455	15.3	20	1.8
1. D		8	20	550	25.5	43	3.5	44
2. S		16	179	1000	21.1	35	3.6	31
2. D		1	35	570	24.8	45	5.4	25
3. S		2	22	350	7.4	21	3.6	10
3. D		3	25	235	47.0	70	4.3	11
6. S		1	22	840	21.2	38	7.8	12
6. D		3	40	720	17.0	52	4.1	23
7. S		24	74	1105	17.0	54	7.7	20
7. D		3	33	700	21.3	50	4.7	23
9. S		0	165	1260	22.0	60	7.6	1
9. D		6	41	595	45.0	86	5.9	17
10. S		3	43	640	24.0	54	3.9	20
11. S		0	95	880	23.4	36	5.5	17
11. D		6	11	600	16.0	49	3.9	39
12. S		7	0	650	38.4	53	3.8	24
12. D		7	34	765	28.6	46	5.1	15
13. S		2	90	960	20.0	48	6.0	32
13. D		7	26	655	22.0	63	6.4	23

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
5. i	1.S	22	65	585	6.8	32	3.9	60
	1.D	6	36	430	7.4	38	3.5	44
	2.S	4	79	780	37.4	46	7.2	14
	2.D	6	0	470	37.2	55	2.9	30
	3.S	0	94	915	18.7	43	6.5	12
	3.D	0	118	625	37.8	78	7.0	14
	6.S	7	126	810	7.0	58	8.1	19
	6.D	2	28	565	44.0	52	3.5	21
	7.S	14	77	645	8.3	35	4.2	27
	7.D	4	28	560	13.4	50	3.0	20
	9.S	1	181	1120	20.4	36	11.1	8
	9.D	1	51	420	36.7	60	3.4	18
	10.S	7	80	545	41.5	58	6.7	33
	11.S	0	144	625	41.8	46	3.7	14
	11.D	5	2	355	94.0	51	2.6	28
	12.S	2	83	430	23.8	36	3.4	23
	12.D	7	13	570	13.5	50	4.9	31
	13.S	0	126	545	31.2	44	4.5	15
	13.D	0	62	450	32.4	56	4.0	16
	5. 11	1.S	0	220	545	19.2	34	2.6
1.D		0	130	520	30.3	30	2.4	24
2.S		2	96	500	37.8	41	3.0	39
2.D		13	127	500	33.6	42	3.3	67
3.S		1	116	455	30.8	64	3.1	14
3.D		3	48	470	11.5	36	2.3	9
6.S		5	83	335	15.0	21	2.0	16
6.D		0	40	475	37.0	55	3.5	28
7.S		1	130	505	22.3	40	3.0	10
7.D		2	69	410	39.0	54	3.3	23
9.S		3	305	780	27.0	54	4.2	13
9.D		6	90	490	54.0	77	3.6	20
10.S		4	41	415	34.3	60	3.6	28
11.S		2	103	330	26.4	30	2.6	16
11.D		3		170	54.8	44	2.8	28
12.S		4	85	540	32.7	41	3.6	15
12.D		2	36	255	29.2	44	2.2	27
13.S		2	175	680	26.0	35	3.0	16
13.D		3	56	620	31.2	52	2.6	13

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
9.iii	1.S	27	232	250	28.0	39	3.7	71
	1.D	9	75	320	33.0	43	2.5	36
	2.S	59	20	660	17.0	28	2.4	28
	2.D	33	73	815	37.0	48	3.2	24
	3.S	4	212	820	27.0	37	4.5	10
	3.D	4	58	520	52.0	63	4.3	14
	6.S	2	102	540	22.0	34	3.5	11
	6.D	3	24	340	40.0	54	3.2	26
	7.S	5	139	695	35.0	44	4.0	20
	7.D	2	32	530	40.0	57	3.9	16
	9.S	7	204	900	43.0	48	4.6	20
	9.D	3	35	355	50.0	63	3.1	17
	10.S	1	55	660	33.0	43	3.9	7
	11.S	9	157	780	41.0	54		20
	11.D	4	34	415	45.0	45	2.0	24
	12.S	3	97	480	20.0	30	2.8	16
	12.D	3	11	250	45.0	42	2.3	26
	13.S	1	99	500	22.0	35	3.1	15
	13.D	2	20	500	38.0	49	3.0	16
9.iv	1.S	7	175	555	29.0	39	3.0	58
	1.D	9	25	415	36.0	44	2.7	70
	2.S	23	300	800	24.0	30	3.0	28
	2.D	4	38	375	44.0	49	3.1	25
	3.S	6	163	735	22.0	36	3.5	16
	3.D	3	59	425	73.0	75	3.3	14
	6.S	2	65	430	20.0	35	2.8	11
	6.D	4	27	470	42.0	54	3.4	23
	7.S	3	221	1140	31.0	43	3.7	21
	7.D	4	53	680	34.0	54	3.4	24
	9.S	3	214	1000	35.0	57	4.5	9
	9.D	2	44	910	31.0	54	3.7	17
	10.S	5	18	505	40.0	52	2.4	25
	11.S	3	138	830	24.0	46	3.9	22
	11.D	4	4	490	58.0	53	2.9	22
	12.S	3	128	565	42.0	45	3.7	15
	12.D	2	20	690	44.0	48	2.4	26
	13.S	7	188	855	21.0	45	4.6	22
	13.D	3	12	455	52.0	57	3.2	19

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
11.v	1.S	43	158	500	29.9	31	2.2	63
	1.D	10	32	560	27.8	45	2.4	52
	2.S	2	145	445	24.4	37	2.7	30
	2.D	3	31	600	25.3	50	2.8	27
	3.S	2	224	975	29.7	31	5.1	13
	3.D	5	24	430	14.7	54	2.2	16
	6.S	2	81	640	13.3	40	3.0	12
	6.D	2	19	630	37.0	55	3.7	20
	7.S	4	93	655	27.3	35	2.7	18
	7.D	18	10	580	42.6	61	3.5	44
	9.S	2	190	920	30.0	59	5.0	5
	9.D	10	29	600	39.2	78	3.1	41
	10.S	2	104	550	30.7	43	3.9	26
	11.S	4	70	745	33.5	37	3.5	17
	11.D	4	5	600	33.0	54	2.8	33
	12.S	4	113	905	32.0	50	4.2	13
	12.D	2	18	405	36.6	49	2.8	27
	13.S	1	83	480	16.0	30	2.5	6
	13.D	5	0	430	43.0	57	2.2	17
11.vi	1.S	12	164	500	40.5	52	4.8	91
	1.D	11	58	610	26.7	41	4.1	43
	2.S	5	237	810	34.5	35	3.4	42
	2.D	4	63	580	30.0	41	2.8	22
	3.S	6	255	935	16.0	35	4.2	13
	3.D	5	76	690	42.3	76	4.4	16
	6.S	7	29	685	48.0	49	2.8	30
	6.D	4	28	610	42.5	50	3.7	26
	7.S	3	90	545	27.3	33	2.9	17
	7.D	1	34	510	33.0	42	3.0	10
	9.S	8	409	1415	31.9	55	5.3	7
	9.D	6	48	570	56.0	45	2.8	15
	10.S	3	85	710	41.6	40	3.2	20
	11.S	6	131	900	40.0	43	4.1	20
	11.D	2	14	455	39.7	48	2.8	27
	12.S	5	139	855	57.0	38	4.0	19
	12.D	2	76	505	18.7	32	2.3	17
	13.S	2	133	850	37.0	42	4.0	13
	13.D	4	11	550	72.0	45	3.5	18

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
12.vii	1.S	7	212	710	45.2	53	4.6	76
	1.D	8	51	475	50.0	47	3.1	48
	2.S	4	127	570	30.7	30	2.4	28
	2.D	3	44	390	22.1	45	2.9	25
	3.S	3	168	790	25.9	46	3.2	13
	3.D	2	69	480	56.0	86	3.9	12
	6.S	2	105	640	18.7	34	4.8	17
	6.D	3	30	800	48.6	64	3.2	35
	7.S	1	47	640	40.7	55	3.3	13
	7.D	2	161	790	34.7	48	4.1	19
	9.S	5	332	1110	26.6	47	4.8	6
	9.D	3	35	530	37.8	60	2.9	15
	10.S	6	79	755	59.6	55	3.6	35
	11.S	3	186	960	59.8	55	4.6	27
	11.D	3	8	400	57.6	51	2.5	30
	12.S	6	91	540	50.0	59	5.2	60
	12.D	5	26	815	30.2	53	3.3	30
	13.S	10	224	880	49.1	42	4.7	49
	13.D	2	46	510	37.8	51	2.9	16
17.viii	1.S	12	144	500	38.4	46	4.4	67
	1.D	4	15	420	6.1	40	3.0	33
	2.S	8	291	1075	18.4	48	3.8	31
	2.D	9	10	420	22.9	36	2.2	22
	3.S	1	52	320	13.3	21	1.4	16
	3.D	1	27	365	28.3	42	2.4	19
	6.S	7	128	835	20.4	43	3.7	12
	6.D	3	33	420	32.9	46	2.4	15
	7.S	1	71	495	18.6	31	2.4	10
	7.D	4	25	670	39.2	61	3.5	20
	9.S	5	112	900	30.7	40	3.5	10
	9.D	4	63	765	43.8	61	3.9	23
	10.S	4	57	720	42.0	45	3.6	17
	11.S	3	132	780	37.7	54	4.6	24
	11.D	3	7	450	48.2	56	2.8	27
	12.S	4	105	930	40.5	59	4.6	16
	12.D	5	9	450	41.3	63	2.8	29
	13.S	6	188	1140	33.1	54	5.3	31
	13.D	2	51	560	34.3	63	3.3	13

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
13. ix	1.S	13	110	575	35.3	51	3.3	71
	1.D	6	29	510	34.3	52	3.3	34
	2.S	8	171	560	42.5	38	3.4	39
	2.D	3	30	330	24.5	52	3.4	23
	3.S	1	68	450	14.9	17	1.5	6
	3.D	11	28	430	32.4	52	2.8	54
	6.S	1	93	580	26.4	40	3.2	10
	6.D	4	38	580	41.4	57	3.5	29
	7.S	0.4	71	500	26.7	36	2.6	13
	7.D	5	54	660	38.5	59	4.2	26
	9.S	6	62	850	32.9	51	4.5	6
	9.D	5	30	320	41.4	57	3.1	14
	10.S	3	38	510	69.3	46	3.5	26
	11.S	2	95	310	35.0	55	5.5	21
	11.D	4	14	530	43.3	51	2.9	29
	12.S	2	70	615	33.6	43	3.4	15
	12.D	3	18	330	42.2	49	2.5	24
	13.S	10	104	440	35.7	49	4.4	74
	13.D	1	17	480	40.0	62	3.5	5
19. x	1.S	5	64	615	24.3	32	3.5	61
	1.D	9	4	490	31.9	47	2.9	40
	2.S	3	139	525	28.7	39	3.0	20
	2.D	6	66	640	30.2	41	3.2	28
	3.S	2	90	540	53.9	35	3.1	17
	3.D	2	42	465	27.3	43	2.8	12
	6.S	1	116	880	32.0	48	4.3	17
	6.D	4	52	645	34.7	52	4.5	15
	7.S	8	188	1010	38.4	43	5.4	7
	7.D	1	46	570	42.9	58	3.2	15
	9.S	1	147	725	33.0	53	5.0	8
	9.D	4	11	650	53.1	70	3.3	13
	10.S	3	49	540	35.6	44	3.8	20
	11.S	3	31	720	31.9	53	4.2	13
	11.D	3	5	550	36.8	45	2.7	17
	12.S	4	84	705	32.8	37	4.3	18
	12.D	3	7	480	42.0	50	2.7	27
	13.S	4	70	480	24.8	42	3.7	18
	13.D	4	6	580	35.4	46	3.8	17

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
23. xi	1. S	7	42	230	25.8	32	2.5	67
	1. D	5	19	250	27.7	42	2.4	51
	2. S	9	84	300	22.8	30	2.7	27
	2. D	3	15	295	30.0	39	2.8	23
	3. S	2	102	610	29.8	45	3.8	18
	3. D	1	13	320	28.0	42	2.3	9
	6. S	2	92	625	30.4	44	4.2	18
	6. D	3	8	485	53.2	71	4.4	22
	7. S	3	146	550	39.5	47	3.9	32
	7. D	1	15	490	30.8	49	3.8	10
	9. S	1	78	615	22.3	41	3.6	5
	9. D	2	26	280	42.0	61	4.4	13
	10. S	4	52	510	42.8	44	3.7	26
	11. S	2	95	690	34.8	48	4.0	15
	11. D	2	2	320	37.8	41	2.4	26
	12. S	2	41	530	31.2	39	3.6	14
	12. D	2	4	270	38.2	47	5.7	42
	13. S	0.5	79	455	24.0	37	3.2	12
	13. D	2	60	580	42.0	57	3.5	15
1949								
10. i	1. S	4	57	220	18.5	22	1.5	48
	1. D	10	58	270	35.4	37	2.8	63
	2. S	3	58	300	23.1	22	2.1	42
	2. D	1	57	275	30.2	49	3.9	22
	3. S	3	95	470	19.0	31	2.2	13
	3. D	5	63	550	58.1	36	2.8	20
	6. S	10	112	745	30.5	35	3.0	26
	6. D	7	63	630	22.4	45	4.4	21
	7. S	13	155	900	28.0	46	3.5	45
	7. D	1	51	370	30.4	48	4.2	21
	9. S	2	108	600	29.6	46	3.5	10
	9. D	2	47	230	30.6	44	2.6	19
	10. S	9	95	560	34.6	56	3.7	21
	11. S	2	84	795	36.0	46	4.1	9
	11. D	3	54	280	37.0	47	3.1	24
	12. S	1	81	405	34.0	41	3.4	18
	12. D	0	35	380	40.0	46	3.2	16
	13. S	1	144	695	32.0	49	3.4	8
	13. D	5	48	380	23.4	58	3.4	15

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
9. ii	1.S	5	41	305	33.3	48	4.6	81
	1.D	7	23	455	27.0	42	2.7	47
	2.S	29	46	360	16.1	28	2.8	26
	2.D	6	71	330	31.3	54	3.7	21
	3.S	1	9	200	2.6	13	1.9	5
	3.D	3	10	460	18.0	29	4.1	11
	6.S	2	78	370	27.6	30	3.0	8
	6.D	3	39	160	38.5	56	3.3	19
	7.S	7	45	840	35.4	41	4.1	13
	7.D	5	13	420	26.7	51	5.6	23
	9.S	4	69	840	12.6	25	5.2	6
	9.D	2	4	445	19.4	45	3.6	6
	10.S	6	27	430	26.4	48	3.5	32
	11.S	4	50	550	24.6	42	4.7	24
	11.D	2	4	295	36.9	46	2.6	22
	12.S	7	41	545	26.9	49	4.6	35
	12.D	4	2	235	33.6	47	2.7	40
	13.S	2	51	850	40.3	48	4.4	12
	13.D	3	7	590	43.7	57	3.2	13
9. iii	1.S	6	146	280	28.8	33	3.8	29
	1.D	6	27	355	47.6	66	4.6	23
	2.S	5	146	375	31.2	32	2.4	35
	2.D	2	46	410	47.9	67	6.0	8
	3.S	14	130	580	12.2	54	5.4	51
	3.D	2	61	390	65.7	108	5.8	8
	6.S	2	103	150	36.0	45	3.8	29
	6.D	3	41	530	32.7	57	4.3	20
	7.S	2	149	480	32.5	43	4.1	21
	7.D	2	33	410	26.8	41	2.9	9
	9.S	1	87	765	33.2	42	7.2	4
	9.D	5	21	295	60.0	79	3.6	15
	10.S	5	67	320	41.0	44	3.5	23
	11.S	1	96	300	26.0	41	3.8	17
	11.D	3	0	295	37.7	45	2.3	22
	12.S	1	106	335	44.8	47	3.7	18
	12.D	2	28	510	35.4	52	2.5	25
	13.S	19	100	365	25.0	48	3.4	78
	13.D	5	14	420	46.2	62	3.1	12

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
8. iv	1. S	16	135	340	42.8	50	3.3	78
	1. D	5	29	490	38.0	42	2.7	38
	2. S	2	174	700	43.3	60	4.7	37
	2. D	2	77	285	28.7	48	3.2	22
	3. S	7	153	310	36.7	53	5.5	76
	3. D	3	52	580	51.0	80	4.3	13
	6. S	2	77	720	45.0	49	3.5	10
	6. D	4	14	675	44.1	55	3.5	20
	7. S	3	136	460	32.0	49	5.0	30
	7. D	1	44	425	30.2	52	3.2	11
	9. S	25	60	1000	37.0	64	5.2	31
	9. D	1	57	150	24.0	66	4.8	11
	10. S	2	67	335	31.5	41	4.0	14
	11. S	2	88	360	32.3	48	3.8	22
	11. D	4	4	425	45.8	50	2.8	25
	12. S	1	91	310	32.8	47	4.0	10
	12. D	2	13	430	49.7	47	2.8	26
	13. S	1	59	280	24.6	39	3.2	17
	13. D	4	26	310	39.6	53	4.0	15
11. v	1. S	10	85	230	47.5	41	3.6	80
	1. D	4	9	95	32.8	11	2.5	35
	2. S	12	90	290	9.2	19	1.5	50
	2. D	2	48	420	40.0	50	3.0	23
	3. S	9	153	690	47.0	62	5.0	90
	3. D	2	63	290	49.7	62	3.3	16
	6. S	1	58	520	32.0	35	3.5	9
	6. D	1	38	310	38.0	46	3.2	20
	7. S	1	74	350	24.8	36	2.5	14
	7. D	3	30	400	27.3	51	3.2	22
	9. S	2	153	865	44.0	55	4.3	8
	9. D	2	16	285	47.0	54	2.2	14
	10. S	1	41	180	40.8	58	3.1	19
	11. S	1	105	660	37.2	40	3.7	11
	11. D	2	11	310	50.0	44	2.2	25
	12. S	3	37	480	32.4	37	3.2	18
	12. D	2	16	395	46.6	44	2.4	25
	13. S	1	89	585	37.0	51	4.3	19
	13. D	2	49	610	44.0	62	3.5	13

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
28. vi	1. S	5	102	460	42.2	41	3.4	33
	1. D	5	22	255	44.8	48	3.3	42
	2. S	3	205	375	41.2	40	3.9	36
	2. D	2	54	640	49.7	58	4.0	21
	3. S	4	75	185	44.0	31	3.1	69
	3. D	2	63	535	49.2	74	3.8	16
	6. S	1	101	610	36.0	43	3.7	10
	6. D	4	41	375	55.0	62	4.2	24
	7. S	0.4	46	395	22.0	38	3.3	8
	7. D	1	39	500	22.7	54	3.6	23
	9. S	1	48	730	54.0	58	4.8	12
	9. D	2	49	390	60.0	74	3.3	17
	10. S	0.1	68	425	50.6	40	3.7	2
	11. S	1	108	630	42.9	43	4.1	14
	11. D	2	2	540	39.0	53	2.9	23
	12. S	1	95	315	49.7	48	4.3	22
	12. D	1	18	235	45.3	59	3.2	29
	13. S	5	69	575	44.0	54	5.4	22
	13. D	2	14	590	49.7	73	4.2	10
31. viii	1. S	2	84	530	10.6	23	2.0	21
	1. D	3	12	420	22.0	49	3.2	21
	2. S	2	101	255	21.8	24	2.0	33
	2. D	1	49	330	40.3	52	3.7	10
	3. S	0.3	143	360	40.3	58	5.7	6
	3. D	1	64	355	53.3	76	3.8	8
	6. S	1	60	720	25.2	35	3.7	10
	6. D	2	14	540	37.2	54	3.6	19
	7. S	0.4	125	605	26.4	34	3.0	5
	7. D	3	13	505	34.0	52	3.5	22
	9. S	21	117	340	38.4	56	6.1	28
	9. D	4	16	385	72.0	70	3.4	18
	10. S	2	45	430	44.7	56	3.8	30
	11. S	3	18	790	32.5	49	4.7	12
	11. D	3	6	470	43.0	51	2.8	20
	12. S	1	45	675	42.3	44	3.5	15
	12. D	3	0	485	56.2	50	2.7	23
	13. S	3	157	510	53.0	61	6.4	32
	13. D	3	44	800	62.0	75	5.0	9

Location: SHELL POINT OYSTER LEASE

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
8. xii	1. S	2	80	215	24.6	30	2.1	82
	1. D	4	25	250	32.7	44	2.7	31
	2. S	2	117	220	27.2	37	3.1	44
	2. D	2	48	360	38.4	59	3.5	23
	3. S	11	95	465	18.8	46	3.8	42
	3. D	2	39	290	46.2	66	3.2	15
	6. S	6	73	830	35.0	43	3.3	17
	6. D	4	33	555	33.1	48	3.8	12
	7. S	3	89	680	29.4	43	2.8	14
	7. D	3	42	400	35.3	58	3.6	22
	9. S	5	70	800	28.8	52	4.3	15
	9. D	2	67	305	60.8	88	3.2	14
	10. S	7	65	480	34.2	48	2.6	34
	11. S	3	31	670	28.8	49	3.5	11
	11. D	5	1	415	39.4	53	2.7	28
	12. S	14	66	640	23.2	38	2.6	74
	12. D	3	1	370	35.6	54	2.5	21
	13. S	2	48	415	30.8	56	3.3	24
	13. D	3	29	345	25.0	52	3.0	15
1950								
22. ii	1. S	15	222	320	29.9	34	3.3	22
	1. D	2	93	430	42.9	60	4.4	6
	2. S	14	59	260		52	3.2	32
	2. D	10	42	540	23.8	51	3.8	26
	3. S	23	232	830	45.0	61	5.7	75
	3. D	2	111	605	50.6	87	5.5	20
	6. S	2	127	590	36.8	44	4.0	10
	6. D	3	40	350	42.2	65	4.6	11
	7. S	1	114	215	26.1	29	2.9	21
	7. D	0.4	48	260	39.0	58	4.2	4
	9. S	2	195	640	34.7	67	5.4	19
	9. D	2	50	355	36.0	57	3.2	13
	10. S	3	52	435	41.4	50	3.4	18
	11. S	1	1	460	31.9	20	1.7	10
	11. D	17	15	760	32.6	45	4.3	25
	12. S	3	53	565	8.4	37	3.3	18
	12. D	2	26	155	47.3	54	3.3	29
	13. S	7	200	320	52.0	62	6.2	44
	13. D	3	32	630	26.6	75	4.4	12

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
4. v	1. S	3	60	385	15.8	22	1.8	49
	1. D		13	445	14.0	47	3.2	
	2. S	15	48	625	52.4	144	7.2	37
	2. D	2	19	375	14.3	45	3.2	21
	3. S	34	205	1300	27.5	84	7.8	67
	3. D	15	223	900	18.5	69	6.7	28
	6. S	2	113	635	24.4	38	3.8	9
	6. D	6	8	480	11.4	45	3.0	27
	7. S	5	153	735	23.0	39	4.1	13
	7. D	3	14	440	13.5	49	3.6	22
	9. S	3	61	570	44.6	87	4.3	16
	9. D	9	155	770	52.8	109	5.3	25
	11. S	8	97	965	18.2	53	5.9	15
	11. D	2	3	370	6.4	46	2.5	27
	12. S	21	67	570	23.5	47	4.5	54
	12. D	2	12	425	15.8	14	2.8	17
	13. S	4	127	765	26.5	54	4.8	16
	13. D	4	40	680	44.0	79	5.6	8
3. vii	1. S		28	385	13.3	20	2.0	32
	1. D	44	77	920	34.2	55	3.6	40
	2. S	4	330	1270	48.4	79	7.7	87
	2. D	0.5	55	115	20.9	49	2.8	0
	3. S	0.2	71	370	11.7	17	1.8	1
	3. D	2	61	400	26.0	43	2.6	34
	6. S	5	143	430	14.4	27	2.9	34
	6. D	3	97	610	32.4	70	5.2	26
	7. S	7	264	1130	36.5	92	11.0	41
	9. S	6	141	645	21.0	46	4.7	22
	9. D	1	65	415	35.2	65	3.5	18
	10. S	4	35	570	25.5	38	4.3	11
	11. S	1	4	505	28.6	43	2.9	22
	11. D	20	110	990	30.8	46	3.5	36
	12. S	22	399	1345	42.0	88	8.4	21
	12. D		44	620	24.0	51	2.3	19
	13. S		21	725	24.2	53	4.2	5
	13. D		69	435	11.9	25	2.0	78

Location: SHELL POINT OYSTER LEASE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
24. xi	2.S	6	70	510	11.8	33	2.9	24
	2.D	7	39	670	42.6	79	6.0	23
	7.S	5	102	295	9.3	38	3.4	31
	7.D	5	36	520	9.8	55	3.4	22
	10.S	11	15	410	21.3	56	3.1	33
	11.S	6	62	1055	20.2	49	3.5	13
	11.D	4	6	240	20.7	50	2.2	28
	12.S	5	52	665	20.8	47	0.5	19
	12.D	5	0	320	35.3	55	2.9	25

Location: PORT HACKING

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
7. i	4	1.0	73	413	7.3	35.0	2.8	18
	8	0.3	69	360	6.0	30.0	3.0	5
1. iv	4	5.0	35	718	32.8	90.7	6.6	11
	8	0.0	87	580	40.0	75.0	2.7	0.5
23. v	4	0.6	14	570	24.8	55.0	4.3	7
	8	1.0	27	480	30.0	27.0	1.6	2
9. vi	4	3.0	38	781	23.5	66.0	4.5	9
	8	0.1	35	456	9.6	29.0	1.0	0.6
27. vi	4	0.3	12	672	11.2	49.0	4.2	3
	8	0.3	40	543	14.3	103.0	5.0	0.5
12. viii	4	2.0	13	893	28.5	65.0	4.1	10
	8	1.0	88	638	7.2	95.0	3.6	30
30. ix	4	5.0	18	733	30.7	74.0	4.5	20
	8	1.0	60	840	30.8	50.0	3.1	2
19. x	4	5.0	99	824	39.8	53.0	3.3	12
10. xi	4	1.0	92	815	13.4	53.0	5.7	7
	8	1.0	73	383	32.9	69.0	3.5	19
1. xii	4	4.0	46	848	15.0	38.0	3.7	10
	8	1.0	182	954	46.8	116.0	4.2	9
16. xii	4	4.0	59	806	12.7	51.0	2.9	9
	8	2.0	72	792	31.2	65.0	3.2	3
1950								
9. i	4	1.0	64	757	10.1	33.0	3.5	4
	8	0.5	31	760	42.7	77.0	4.2	13
1. ii	4	2.0	26	643	25.8	108.0	5.4	8
	8	0.0	65	733	20.0	80.0	2.3	2

Location: PORT HACKING

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
27. ii	4	2.0	28	633	33.0	62.0	3.5	3
	8	1.0	11	520	21.9	69.0	3.3	2
24. iii	4	1.0	0	430	4.0	32.0	2.6	1
	8	11.0	111	965	33.6	78.0	4.4	15
11. iv	4	0.4	10	546	11.2		4.6	2
	8	1.0	81	1004	93.0	101.0	4.7	12
24. iv	4	1.0	68	604	20.8	77.0	4.3	5
	8	1.0	103	800	33.6	97.0	4.1	11
29. v	4	3.0	48	612	7.2	89.0	4.9	17
	8	0.1	69	459	15.7	66.0	2.7	2
6. vii	4	20.0	51	617	14.7	57.0	4.3	17
	8	12.0	102	633	36.2	136.0	6.2	85
26. vii	4	7.0	240	2300	30.0	232.0	8.5	4
	8	2.0	126	1020	23.8	107.0	3.4	11
7. viii	4	2.0	41	739	13.2	87.0	4.2	6
	8	1.0	87	647	23.4	104.0	4.1	12
22. viii	4	2.0	73	575	15.0	75.0	3.3	11
	8	4.0	243	1390	52.8	200.0	7.2	22
13. ix	4	1.0	34	637	6.3	43.0	3.4	5
	8	3.0	135	400	25.0	75.0	1.5	3
25. ix	4	3.0	111	938	8.3	31.0	3.4	6
	8	1.0	43	354	20.7	33.0	2.5	20
10. x	4	0.5	96	575	22.5	64.0	3.5	8
	8	0.8	13	905	37.4	99.0	4.6	11
25. x	4	1.0	70	728	27.0	78.0	2.9	4
	8	0.3	201	992	40.0	99.0	5.4	4

Location: PORT HACKING

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
30. x	4	0.2	111	581	18.5	67.0	2.3	5
6. xi	4	2.0	33	570	12.3	75.0	3.5	7
	8	0.0	49	662	33.9	76.0	3.2	5
13. xi	4	1.0	23	549	12.1		3.3	7
20. xi	4	11.0	10	520	12.0	87.0	7.0	24
	8	8.0	16	707	27.2	108.0	4.7	7
27. xi	4	29.0	14	739	18.2	56.0	4.6	85
4. xii	4	9.0	15	315	22.5	54.0	4.5	46
	8	1.0	30	360	18.0	34.0	1.4	5
11. xii	4	8.0	19	403	17.3	46.0	4.7	34
18. xii	4	1.0	75	540	16.8	21.0	1.4	3
	8	3.0	138	695	38.0	63.0	4.2	15

Location: SHOALHAVEN RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1945								
3. xii	1	0	73		10.6		1.5	8
	1a	0	48		8.8		1.7	18
	2	0.8	40		11.6		1.6	27
	3	1.0	36		14.5		1.9	42
	4	0.4	21		10.5		1.8	18
	5	0	0		15.7		4.4	28

Location: CLYDE RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1945 12. xii	1	0	0		1.1			10
	2	5.0	21		10.0		2.8	22
	3	3.0	42		12.8		3.1	22
	5	0	78		9.3		3.0	21
	6	0.2	27		9.7		1.5	22
	7	0	0		11.1		2.7	45
	8	0	0		10.0		3.1	1
	1948 6-8. viii	1	0.1	6		11.2	14	
2		3.0	14	525	25.0	37	2.3	17
3		2.0	10	470	21.3	29	2.0	10
4		2.0	22	370	28.1	37	2.1	18
5		2.0	22	305	28.2	34	1.4	25
6		3.0	39	445	22.0	41	3.2	78
7		0	10		16.0	23	0.5	7

Location: MORUYA RIVER

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1945								
30. xi	1	1.5	93		20.3		2.6	22
	5	0	20		20.4		4.2	0.5
	6	0	23		18.7		2.3	1.

Location: TUROSS RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
10. i	1	0	24		18.0		2.8	8
	2	3.0	85		12.8		2.4	59
	3	0	48		15.4		2.8	12
	4	0	57		11.3		2.0	19
	5	0.3	97		10.5		1.6	10
	6	1.1	113		13.5		2.2	3
	7	2.4	52		9.6		1.8	10
	8	0	22		16.5		2.3	34
	9	0	175		16.3			0.5
	10	0	5		42.0		0.8	39
1948								
7. vii	1	0.6	35	390	22.0	23	1.2	13
	2	1.0	85	420	26.4	25	0.1	15
	3	3.0	36	270	33.0	21	0.1	30
	4	1.0	38	290	32.1	20	1.6	44
	5	0.7	57	560	30.2	29	1.8	15
	6	0.8	50	425	20.2	19	1.4	15
	7	0.6	48	435	23.8	20	1.4	12
	8	0.3	37	235	38.0	17	1.4	31
	9	0.4	102	510	36.8	7	0.6	5
	10	0.4	66	430	25.0	13	1.2	9

Location: **PITTWATER, TASMANIA**

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
10. iii	1	0.2	33	340	6.0	42	0.6	1
	2	1.0	109	1000	32.5	23	1.5	0
	3	2.0	112	850	22.5	11	3.8	2
14. iv	1	0.4	67	600	7.0	40		1
	2	1.0	33	635	26.6	40	2.0	3
	3	2.5	84	1090	16.8	38	3.8	3
20. v	1	1.0	56	410	24.1	19	1.8	4
	2	0.1	133	625	30.0	11	5.3	2
	3	4.0	42	400	14.4	13	1.6	10
10. vi	1	0.4	16	750	20.0	23	3.6	0
	2	0.2	169	1025	41.4	19	3.7	5
	3	0.2	6	175	6.0	3	0.8	1
17. viii	1	1.0	22	465	24.9	25	1.4	3
	2	1.0	112	1035	22.4	46	3.4	3
	3	3.0	40	670	19.2	36	3.4	7
29. ix	1	1.0	0	400	5.0	30	0.8	2
	2	0.1	10	500	14.0	33	2.7	2
	3	1.0	25	200		12	0.7	7
26. x	1	9.0	11	800	28.0	42	2.3	15
	2	0.4	0	560	14.0	24	2.3	1
	3	13.0	31	600	49.4	31	1.5	52
23. xii	1	0.3	30	505	16.1	31	1.0	3
	2	1.0	154	980	37.0	32	3.2	4
	3	1.0	18	600	3.3	45	2.0	2
1950								
31. i	1	0.1	60	490	21.6	25	1.4	5
	2	0.3	70	610	49.6	33	2.8	11
	3	5.0	34	790	24.0	36	1.7	9

Location: PITTWATER, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
21. ii	1	3.0	68	445	23.3	25	3.3	9
	2	3.0	26	100	5.3	4	0.4	4
	3	6.0	256	770	26.4	55	6.9	5
14. iv	1	1.0	230	670	36.4	29	4.2	7
	2	2.0	95	645	28.0	34	3.8	4
	3	7.0	120	1200	15.0	53	6.8	4
17. v	1	8.0	78	615		42	4.2	8
	2	3.0	107	450	13.2	40	2.7	28
	3	2.0	77	665	16.7	40	3.4	5
15. vi	1	0	244	840	33.6	25	2.4	18
	2	15.0	71	540	27.1	27	2.6	86
	3	7.0	23	420	4.2	13	1.8	7
11. vii	1	2.0	31	160	22.4	14	1.2	11
	2	0.5	94	410	26.5	22	2.5	1
	3	32.0	135	560	30.8	25	2.8	49
8. viii	1	7.0	42	470	37.7	25	2.5	16
	2	5.0	24	685	37.4	28	3.0	10
	3	3.0	260	1000	22.2	33	4.7	7
12. ix	1	3.0	88	880	28.0	35	3.2	4
	2	5.0	27	520	19.8	20	3.2	7
	3	2.0	16	560	22.3	23	2.6	7
4. x	1	1.0	97	765	20.6	24	2.6	2
	2	3.0	11	1280	50.0	42	5.9	3
9. xi	1	0.3	78	595	15.6	28	2.2	1
	2	0.5	46	460	35.0	21	2.6	1
	3	1.0	197	1420	35.8	64	10.0	1
6. xii	1	1.0	39	330	46.0	22	3.2	3
	2	3.0	122	660	17.5	31	3.2	15
	3	2.0	149	485	15.6	21	3.9	10

Location: TAMAR RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1947								
11-16.ii	1	3.0	0	190	12.0	6	0.6	9
	2	0.1	40	255	21.0	11	1.8	0.5
	3	1.5	77	520	17.0	16	2.4	15
	4	0	94	500	28.0	18	2.2	91
	5	0	86	520	19.0	20	2.4	93
	6	0	152	820	28.0	24	2.6	13
	7	0	41	250	38.0	17	2.3	0.5
	8	0	19	160	34.0	13	1.8	11
	9	0	64	310	31.0	15	3.2	41
	10	0	156	875	37.0	22	3.1	8
	11	0	18	150	24.0	8	0.8	0.5

Location: DERWENT RIVER, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
24-28.	1	2.3	15	250	11.7	21	3.6	1
i	2	1.7	58	240	3.9	0	0	2
	3	7.7	47	170	27.0	33	2.8	16
	4	0.3	95	185	51.0	22	2.2	1
	5	0	52	125	26.0	32	4.1	34
	6	0.1	56		16.0	10	0.4	2
	7	0	0	40	33.8	8	3.7	10
	8	0.6	36	135	27.2	29	2.2	10
	9	0	0		9.4	30	2.8	9
	9a	0	54	110	27.2	19	1.7	1
	9b	0	105			9		0
	10	0	9		24.3	38	2.9	10
	11	0	0		8.7	54		40
	11a	0	0		10.2	0	0	68
	12	0	0	150	11.5	126	7.8	35

Location: HUON RIVER, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1947								
22.11	1	13.0	90	520	35.0	55	3.6	11
	2	0	47	280	17.3	42	2.2	38
	3	0	16	415	17.6	63	4.3	96
	4	0	13	280	25.0	18	1.3	4
	5	0	12	265	16.0	24	2.2	73

Location: LAKE DOBSON, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1948								
1. iv	1	12.0	10	380	8.0	84	5.0	58
	2	3.0	21	270	5.3	56	4.5	94
	3	0.6	85	330	15.0	45	6.3	3
10. v	1	4.0	14	760	6.0	74	5.1	47
	2	6.0	25	890	9.8	72	5.1	99
	3	0.4	8	670	16.8	54	6.7	1
19. x	1	0	36	380	8.4	57	7.6	60
	2	8.0	9	330	3.6	68	5.7	88
	3	0	115	870	25.0	149	12.2	79
30. xi	1	13.0	33	1000	66.4	149	20.0	15
	3	6.0	62	930	6.2	158	11.0	19
16. xii	1	15.0	150	1400	10.0	300	44.0	29
	2	1.0	6		69.6	2	1.4	43
	3	8.0	38	230	11.6	52	1.5	40
1949								
21. i	1	24.0	33	285	3.0	51	4.1	82
	2	22.0	0	830	4.6	101	8.5	58
19. ii	1	0	54	630	10.7	197	10.3	1
	2	3.0	15	505	11.0	96	2.2	87
	3	2.0	42	745	24.9	109	5.8	26
9. iii	1	3.0	85	850	15.0	165	8.3	9
	2	0.1	31	460	8.0	156	7.8	0.5
	3	1.0	628	1220	6.0	321	13.2	6
4. iv	1	0.3	165	1000	30.0	150	22.5	0.5
	2	25.0	108	1495	0	647	30.0	30
	3	0.2	66	1000	4.0	306	11.4	0.5
19. v	1	13.0	25	875	27.6	110	6.9	62
	2	3.0	9		115.0	11	0.7	34
	3	3.0	27	855	29.3	304	10.8	13

Location: LAKE DOBSON, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1949								
14. vi	3	0	44	660	17.6	125	6.3	1
14. vii	1	3.0	77	1385	8.8	109	8.6	24
	3	4.0	9	330	5.0	15	1.3	64
21. ix	1	4.0	53	560	12.4	93	3.8	60
	2	12.0	41	1045	7.2	65	6.1	98
	3	11.0	113	1750	50.0		7.5	29
17. x	1	3.0	16	295	8.0	56	4.8	87
	2	7.0	30	340	5.0	77	5.0	90
	3	0	250	750	0		3.8	11
21. xi	1	1.0	8	230	9.1	62	16.0	29
	2	3.0	17	320	7.2	80	15.8	86
19. xii	1	8.0	18	240	12.0	40	3.8	93
	2	0	11	335	5.6	101	5.9	18
	3	0	78	1230	33.6	126	8.4	6
1950								
19. i	1	5.0	19	70	1.8	70	6.0	50
	2	0	18	265	5.3	86	7.4	76
	3	1.0	82	360	28.0	84	5.6	7
20. ii	1	0	33	380	3.3	87	6.7	65
	2	7.0	13	405	2.3	72	5.6	70
	3	1.0	1	225	12.8	38	2.3	19
20. iii	1	14.0	11	305	4.0	91	8.0	93
	2	7.0	13	245	9.2	70	6.6	96
	3	0	53	435	10.0	80	4.0	89
18. iv	1	3.0	13	240	5.7	68	4.3	56
	2	5.0	30	255	7.1	68	4.9	61
	3	0.2	7	230	40.0	13	1.6	9

Location: LAKE DOBSON, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
19. v	1	36.0	8	505	0	67	3.4	93
	2	14.0	32	240	4.0	93	6.1	91
	3	6.0	11	165	14.6	34	2.1	47
21. vi	3	1.0	65	165	6.6	45	3.8	5
17. vii	1	0	61	295	3.0	98	6.1	74
	3	0	29	215	24.5	40	1.7	21
21. viii	1	6.0	140	810	24.9	150	11.8	61
	2	5.0	23	310	7.8	75	4.7	83
	3	1.0	13	300	26.7	14	1.1	27
18. ix	1	6.0	38	440	8.8	91	6.0	54
	2	18.0	7	365	6.8	93	6.3	97
	3	1.0	17	300	17.6	45	3.0	25
23. x	1	0	58	300	2.5	55	3.9	66
	2	0	133	1000	16.6	175	12.1	70
	3	7.0	5	320	9.2	58	4.0	32
24. x	1	0	193			75	5.9	31
	2	6.0	63	455	7.0	76	4.9	84
	3	2.0	5			24	2.0	22
30. x	1	3.0	14			72	4.8	48
	2	14.0	30	435	6.7	60	5.3	61
	3	1.0	12	325	36.5	17	1.3	21
7. xi	1	4.0	150	300	0	98	7.0	25
	2	0	58	310	3.1	63	7.7	74
	3	6.0	50	550	25.0	67	6.1	25
20. xi	1	1.0	31	180	10.8	54	4.7	30
	2	9.0	31	270	5.4	67	6.4	77
	3	2.0	21	160	12.6	54	4.9	28
27. xi	1	7.0	14	240	6.0	101	6.7	63
	2	8.0	16	210	7.7	67	5.8	72
	3	0.4	9	140	27.0	17	1.5	12

Location: LAKE DOBSON, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
14. xii	1	4.0	24	370	6.9	85	6.2	48
	2	7.0	26	210	5.6	69	5.5	84
	3	0.4	10	70	25.0	7	0.6	41
15. xii	1	4.0	40	240	6.0	55	4.4	46
	2	4.0	34	215	3.8	79	4.3	71
	3	1.0	28	80	14.4	19	1.3	21

Location: PENNA DAM, TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Site
1948								
2. iv	1	4.0	1	125	48.6	26	0.2	76
	2	0.4	14	305	29.8	22	2.2	26
11. v	1	2.0	5	160	75.0	7	0.8	46
	2	1.0	8	305	42.0	14	1.7	25
31. v	1	2.0	7	190	58.0	5	1.1	35
	2	2.0	16	260	51.0	27	2.7	28
19. x	1	1.0	3	100	73.0	6	1.2	49
	2	0.5	7	210	50.0	16	2.6	29
28. xi	1	1.0	4	15	70.4	2	0.7	53
	2	1.0	6	78	69.6	2	1.4	43
17. xii	1	3.0	46	170	58.8	14	2.3	42
	2	1.0	19	210	70.0	6	2.5	20
1949								
21. i	1	3.0	9	170	1.5	9	1.2	73
	2	4.0	5	90	1.1	12	1.8	37
10. iii	1	1.0	3	90	63.0	6	0.8	41
	2	2.0	23	230	46.5	34	3.3	50
5. iv	1	0	0	55	83.6	4	0.6	57
	2	2.0	8	160	42.6	9	1.1	56
20. v	1	1.0	1	120	26.1	8	0.9	49
	2	0.4	11	140	36.5	17	2.0	63
14. vi	1	1.0	3	310	30.2	7	1.3	54
	2	1.0	3	310	41.4	6	0.9	53
1950								
20. ii	1	2.0	14	135	83.6	11	1.7	41
	2	1.0	4	85	30.4	18	2.7	67