Table 2.3 Results of Physicochemical parameters during Pre-monsoon season (July-August 1999) in Pulicat Lake and surrounding areas

S.No	PH	A.TEMP ° C	W.TEMP ° C	SALINITY (ppt)	TDS mg/l	SSC mg/l	SULPHATE ppb	PHOSPHATE ppm	NITRITE ppm	AMMONIA ppm
1	8.3	30	27	36	35650	180.5	1972.4	0.24	0.025	
2	8.5	31	27	36	36750	192.5	2224	0.22	0.027	
3	8	29	27	35	35750	178	2280	0.22	0.023	
4	8	29	30	35	34700	171	2118	0.23	0.032	
5	8.3	28.79	29.21	32.64	32000	106	1165	0.065	0.019	0.156
5b	8.3	27	28.25	33.11	33850	94.4	1051	0.343	0.02	0.163
6	8.4	27	28.25	33.72	34300	106.4	1118	0.073	0.055	0.13
6b	8.5	29	28.35	33.62	35300	91.6	1322	0.139	0.015	0.122
7	8	28.05	28.37	34	36900	89.6	1471	0.011	0.02	0.115
7b	8	28	28.05	33.95	34850	88	2122	0.129	0.01	0.094
8	8.5	29.05	28.47	34.08	35700	88.8	1223	0.013	0.07	0.137
8b	8	30	28.42	34.19	34750	86.2	1135	0.128	0.015	0.136
9	8	30.27	28.56	34.11	33750	100.4	1411	0.039	0.014	0.141
9b	8.3	30.9	27.82	34.94	35950	106.5	1557	0.024	0.02	0.127
10	8.3	31.03	28.4	34.21	33750	83.2	1606	0.407	0.009	0.148
10b	8	31.5	28.02	34.43	34700	81.7	1579	0.214	0.016	0.148
11	8	32	28.57	34.09	34750	82.8	1267	0.019	0.015	0.127
11b	8	32.2	28.34	34.17	34700	80.5	1661	0.044	0.008	0.149
12	8	31.8	28.81	34.59	35250	94.4	1296	0.047	0.028	0.137
12b	8.5	29.15	27.78	34.97	35950	93.8	1696	0.024	0.015	0.139
13	8	31	28.25	34.05	33750	95.2	1501	0.009	0.027	0.151
13b	8.5	29	28.45	34.28	33800	94.9	1677	0.022	0.008	0.171

S.No	pH	A.TEMP ° C	W.TEMP ° C	SALINITY ppt	TDS mg/l	SSCmg/l	SULPHATE ppb	PHOSPHATE ppm	NITRITE ppm	Ammonia ppm
14b	8.3	29.9	27.4	34.78	33400	91.5	1620	0.515	0.019	0.166
15	8.4	29.5	28.35	34.27	32750	90	1230	0.042	0.008	0.102
15b	8.5	28.7	27.42	34.74	34750	87.5	2085	0.056	0.01	0.14
16	8	30.13	28.44	34.25	34800	91.2	1731	0.008	0.008	0.117
16b	8	30.2	28.14	34.51	35850	90.6	2010	0.029	0.008	0.135
17	8.5	28.8	28.64	34.27	34900	96	1157	0.047	0.013	0.144
17b	8	29	28.31	34.39	34850	94.2	2063	0.056	0.008	0.144
18	8	28.85	28,57	34.17	33800	94	1205	0.028	0.009	0.131
18b	8.3	28.2	28.54	34.22	33850	93.2	1322	.0.021	0.008	0.146
19	8.3	27.81	28.67	34.26	34950	94.8	1717	0.011	0.007	0.116
19b	8	27.5	28.68	34.29	34550	94.2	1561	0.021	0.007	0.114
20	8	27.2	28.95	34.14	34500	97.2	1475	0.987	0.026	0.132
20b	8	27	28	34.46	33330	96.3	1652	0.543	0.009	0.079
21	8	27	28.37	34.28	35250	92.4	1203	0.027	0.008	0.137
21b	8.5	26	27.56	34.05	33900	88.6	1991	0.048	0.01	0.135
22	8.5	29	28	34.8	34250	43.5	1189.5	0.21	0.017	--
23	8.5	30	28.5	39	40600	59.5	940.5	0.18	0.016	--
24	8.5	29	28	36.5	36450	60	1098	0.19	0.008	--
25	8.3	30.5	29.5	39.5	38400	43.5	932	0.17	0.009	--
26	8.3	31	29	40	41800	37	868.5	0.17	0.009	--
27	8.5	31	29.5	39	40500	96.5	1040.5	0.16	0.018	--
28	8.4	30	29	41.5	41850	66.5	999	0.22	0.017	--
29	8.5	31.8	28	34	33700	85	2362	0.21	0.021	--
30	8.3	30	27	34	34150	64.5	2530	0.23	0.026	--

S.No	pH	A.TEMP ° C	W.TEMP ° C	SALINITY	TDSD mg/l	SSC mg/l	SULPHATE ppb	PHOSPHATE ppm	NITRITE ppm	Ammonia ppm
32	8.4	31	29	37	37150	49	915	0.27	0.024	
33	8.3	32	31	37.5	37200	67.5	933	0.26	0.017	
34	8	30	30	36	36600	73.5	985	0.18	0.02	
35	8.5	33	29	39	40900	36.5	966	0.16	0.023	
36	8.3	33	30	44.5	43750	58	849	0.15	0.05	
37	8	30	30	46	45550	66.5	940.5	0.16	0.02	
38	8	31	30	47.5	47950	50.5	1091.5	0.15	0.018	
39	8	33	29.5	47.5	46050	70.5	823.5	0.29	0.021	
40	8.5	36.5	29.5	44	43400	85	810	0.26	0.023	
41	8	37	30	43	43350	95.5	1063.5	0.25	0.042	
42	8	37	30	36	36750	74.5	1098	0.19	0.008	
43	8.3	36	30	50.5	48100	68	957.5	0.12	0.01	
44	8	32	30	32	32500	52	1136	0.36	0.025	
45	8.5	35	32	35	30900	80	1149	0.48	0.023	
46	Sediment samples (No Water Flow in River)									
47	Sediment samples (No Water Flow in River)									
48	Sediment samples (No Water Flow in River)									
49	8	31	28	34	35400	43.5	1098	0.31	0.039	
50	8.3	32	29	38	39000	79	1083	0.26	0.04	
51	8.3	32	29	38.5	39800	100	981.5	0.26	0.049	
52	8.4	32	29	35.5	35650	113	832	0.27	0.01	
53	8.5	32	29	44	43500	90.5	940	0.25	0.012	
54	8	32	29	40	40200	173	932	0.29	0.058	
55	8	34	33	206	203000	93	1103	0.78	0.072	

S.No	pH	A.TEMP ° C	W.TEMP ° C	SALLINITY ppt	TDS mg/l	SSC mg/l	SULPHATE ppb	PHOSPHATE ppm	NITRITE ppm	Ammonia ppm
56	Sediment samples (No Water Flow in River)									
57	8	35	32	35	36800	50	1145	0.52	0.054	
58	7.5	33	28	17	15190	15	1140	0.64	0.031	
59	7.5	33	29	7	6512	13	1169	0.56	0.042	
60	8.5	35	34	70.5	71100	68	1200.5	0.72	0.073	
61	8.5	35	33	148	143250	104	1084	0.82	0.065	

Table 2.4 Results of Physico-chemical parameters collected in water samples of Pulicat Lake during Post-monsoon 2000 (January-February)

S.No	pH	A.Temp ° C	W.Temp ° C	TDS (mg/l)	EC (µs)	PO_4	SO_4	NO_2	NH_4	Salinity (ppt)	SSC (mg/l)
1	8	28	27	25300	5.1	620.38	1512.50	151.20	524.23	24.45	125.20
2	8	27	26	34800	6.97	962.37	1501.45	159.50	558.43	30.09	176.30
3	8	30	31	32300	6.59	743.34	1041.82	340.75	570.49	24.39	246.70
4	8	28	33	33000	6.63	736.71	1161.32	298.70	575.31	30.90	274.40
23	8	30	29	27200	5.44	550.87	987.73	149.35	594.59	23.58	94.00
24	8	28	26	34200	6.85	630.52	973.16	143.55	658.07	32.53	58.00
26	8	26	27	26500	5.33	590.69	971.71	155.15	615.48	25.21	112.00
27	8	29	28	21500	4.21	484.50	986.27	134.85	617.09	26.83	68.00
28	8	27	27	23400	4.75	935.82	964.42	136.30	599.41	24.39	82.0029
29	8	27	25	34400	6.91	524.32	888.67	150.80	548.79	30.04	230.00
30	8	29	26	21200	4.3	1194.66	1602.57	169.65	474.07	18.70	90.50
31	8	29	28	24000	4.8	630.52	1532.09	153.70	554.42	21.95	73.80
32	8	28	27	32000	6.41	530.96	981.90	147.90	496.56	31.71	72.00
33	8	26	25	24000	4.9	763.26	946.94	145.00	655.66	23.58	62.80
34	7	27	26	22300	4.4	620.32	820.00	102.50	560.20	25.25	98.25
35	8	29	27	25100	5.1	510.00	858.00	120.20	540.20	26.12	110.25
37	7	28	27	14200	2.82	577.42	694.91	174.00	503.79	15.45	62.00
39	8	30	30	18500	3.62	497.78	973.16	166.75	571.29	17.89	120.00

41	8	29	29	20300	4.02	570.78	932.37	211.70	611.46	16.26	250.00
43	8	29	28	21200	4	420.00	852.00	158.00	490.25	23.48	158.20
49	7	29	29	26100	5.21	550.87	900.32	181.25	601.82	22.77	98.00
50	8	30	29	18800	3.65	577.42	951.32	207.35	580.13	19.52	225.60
54	8	31	31	20250	4.1	570.78	933.83	146.45	580.13	18.70	103.60
58	7	25	24	756	0.15	378.00	458.00	337.00	770.00	1.26	83.00
59	7	25	24	240	0.04	379.00	271.00	110.00	545.00	0.22	92.00
60	7	26	24	5080	1.1	410.00	580.00	132.00	480.23	5.25	135.00
61	7	25	24	4070	0.85	380.00	683.00	112.00	527.00	4.11	120.00
A	7	27	26	2140	0.42	381.00	471.00	78.00	580.00	2.22	112.00