

HILLSBOROUGH COUNTY POLLUTION CONTROL COMMISSION

LAKE THONOTOSASSA STUDY

Summary of Conductivity in μmhos @ 250 C

DATE	1	2	3	4T	4B	5	6	7	8T	8B	9T	9B	10	11	12	13	14	15T	15B	16	17	18	19	20
1-14	350	220	200	200	-	230	210	200	200	-	200	-	210	200	180	220	210	150	-	190	160	210	210	220
2-14	356	235	235	241	-	241	216	229	203	-	127	-	127	-	229	-	235	-	-	229	-	-	-	229
2-21	470	-	-	250	-	-	-	230	235	-	225	-	-	-	240	-	-	245	-	-	-	-	245	-
4-9	470	-	-	250	-	-	-	250	240	-	220	-	-	-	240	-	-	230	-	-	-	-	240	-
4-23	326	151	143	367	-	347	184	184	184	-	194	500	-	-	189	-	-	173	194	184	-	-	170	-
12-10	160	170	180	165	-	200	195	-	205	-	165	250	-	-	160	-	-	390	155	-	-	-	-	-
12-23	189	245	199	199	-	184	168	179	204	-	151	147	-	-	168	-	-	168	168	179	-	-	171	-

1970

1-14	175	168	168	163	-	163	168	173	-	168	165	-	-	-	-	-	-	161	162	163	-	-	153	-
1-20	223	193	191	180	-	170	260	170	170	-	170	178	-	-	175	-	-	170	-	172	-	-	201	-
1-27	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-4	148	322	207	186	-	161	152	185	178	-	207	207	-	-	558	-	-	173	239	230	-	-	178	-
2-11	191	182	180	174	-	141	159	175	-	-	155	169	-	-	159	-	-	181	171	172	-	-	170	-
3-18	171	-	-	-	-	-	-	-	-	-	165	167	-	-	-	-	-	158	157	164	-	-	-	-
7-21	274	-	-	265	282	-	-	-	173	245	203	193	-	-	-	-	-	179	212	197	-	-	-	-

ELLSWORTH COMPANY
 CO. 111111
 LAKE THORNTON, WIS. 53090

Summary of Turbidity in JTU

DATE	STATION NUMBERS																			
	1	2	3	4T	4B	5	6	7	8T	8B	9T	9B	10	12	13	15T	15B	16	17	19
12-9					18				8.5	10								5.5		
12-10	37					11					11				11			10	10	
12-17	39	23				12					11		12		11			11	11	
DATE	STATION NUMBERS																			
1971	1	2	3	4T	4B	5	6	7	8T	8B	9T	9B	10	12	13	15T	15B	16	17	19
1-3	35	22				11					10		10		10			10	10	
1-6		29		10					9.9	9.0								10		
1-7	53	10				11					10		10		10			10	10	
1-13	27	13				16					12		11		11			11	11	
1-22	53	12				10					10		10		10			10	10	
1-24	30	15				15					10		11		11			11	11	
1-27	15										10		10		10			10	10	
1-28	15										10		10		10			10	10	
1-29	15										10		10		10			10	10	

HILLSBOROUGH COUNTY POLLUTION CONTROL COMMISSION

LAKE THONOTOSASSA STUDY

Summary of Turbidity in JTU

DATE	BRIDGE	STATION										NUMBERS									
		1	2	3	4T	4B	5	6	7	8T	8B	9T	9B	10	12	13	15T	15B	16	17	19
1-14	-	8.5	8.4	6.6	8.2	-	9.6	4.7	4.8	-	6.1	5.5	-	-	-	4.9	6.0	4.9	-	6.9	
1-20	-	10	8.4	7.0	6.8	-	7.2	6.7	4.4	4.5	-	4.0	7.4	-	4.9	4.8	-	8.4	-	7.7	
1-27	-	10	6.5	5.6	7.0	-	4.2	7.5	6.5	7.8	-	2.5	4.0	-	4.6	6.0	7.0	8.0	-	5.0	
2-4	-	20	18	11	9.6	-	2.0	14	10	7.2	-	8.0	10	-	8.7	6.1	12	10	-	6.0	
2-11	-	8.0	10	10	9	-	14	7.2	8.5	6.4	-	5.8	12	-	7.0	6.0	7.0	10	-	7.5	
2-25	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-18	-	5.7	-	-	-	-	-	-	-	-	-	4.8	5.8	-	-	5.2	6.2	5.1	-	-	
4-14	-	7.7	-	-	5.6	-	6.2	-	-	5.2	6.7	4.9	13	-	-	3.9	5.4	4.4	-	-	
5-12	-	4.1	-	-	-	-	-	-	-	-	-	6.7	12	-	-	5.6	8.1	5.2	-	-	
6-10	-	5.5	-	-	6.4	-	6.4	-	-	5.6	4.8	4.6	8.8	-	-	5.0	2.4	6.0	-	-	
7-29	-	6.0	-	-	6.5	-	9.5	-	-	4.5	7.5	5.0	5.5	-	-	4.5	5.5	4.5	-	-	
10-14	-	11	-	-	7.7	-	10	-	-	6.8	10	9.0	12	-	-	9.3	9.8	10	-	-	
11-5	14	12	-	-	-	-	-	12	-	-	-	10	-	-	10	-	-	10	10	-	
11-10	-	8.5	-	-	13	-	10	-	-	10	12	9.0	10	-	-	10	10	10	-	-	
11-12	22	11	-	-	-	-	-	11	-	-	-	10	-	-	10	-	-	12	11	-	
11-19	49	11	-	-	-	-	-	11	-	-	-	11	-	-	10	-	-	10	11	-	
11-28	47	12	-	-	-	-	-	10	-	-	-	10	-	-	12	-	-	10	10	-	

HILLSBOROUGH COUNTY POLLUTION CONTROL
COMMISSION
LAKE THONOTOSASSA STUDY

Summary of pH

DATE	STATION				NUMBERS								
1969	1	4	7	8	9T	9B	12	15T	15B	19			
4-9	5.9	7.4	7.4	7.3	7.4	-	7.5	7.6	-	7.4			
4-24	6.7	7.9	8.2	7.8	7.8	-	7.5	7.5	-	7.9			
5-7	-	-	-	-	8.9	-	-	8.4	-	-			
6-4	-	9.3	9.3	9.6	9.7	-	9.7	9.6	-	9.6			
6-25	7.2	9.5	9.4	9.4	9.5	8.7	9.5	9.6	-	9.4			
7-30	5.9	-	-	-	9.2	8.8	-	9.2	8.8	-			
8-13	6.2	-	-	-	7.9	7.9	-	8.7	8.2	-			
8-27	6.3	-	-	-	7.5	7.3	-	8.3	7.5	-			
DATE	STATION				NUMBERS								
1970	1	4T	4B	7	8T	8B	9T	9B	12	15T	15B	16	19
7-29	7.7	8.2	8.0	-	9.0	8.0	7.5	7.6	-	9.0	8.5	8.8	-
10-14	7.0	7.3	7.1	-	8.4	7.6	8.5	8.0	-	8.7	8.1	8.5	-
11-10	8.0	7.8	7.9	-	7.8	7.7	8.0	7.9	-	8.3	8.2	8.0	-
12-9	7.8	7.7	7.7	-	7.5	7.5	-	-	-	-	-	7.9	-
DATE	STATION				NUMBERS								
1971	1	4T	4B	7	8T	8B	9T	9B	12	15T	15B	16	19
1-6	7.8	7.8	-	-	7.9	7.9	-	-	-	-	-	7.9	-
2-10	-	-	-	-	-	-	7.7	7.8	-	7.7	7.8	-	-
2-24	7.3	8.0	7.9	-	7.9	7.8	7.8	7.9	-	7.8	7.5	8.0	-
3-10	7.5	8.1	8.1	-	8.0	8.0	8.2	8.2	-	8.2	8.2	8.1	-

HILLSBOROUGH COUNTY POLLUTION CONTROL
COMMISSION

LAKE THONOTOSASSA STUDY

Summary of Temperature °C

DATE	STATION NUMBERS										
10-5	1	4T	4B	5	8T	8B	9T	9B	15T	15B	16
11-5	15.5	17.0	17.0	-	18.0	19.0	19.5	19.0	19.5	19.5	-
11-17	20.5	19.5	19.5	19.5	18.5	18.5	19.0	18.5	19.0	18.0	-
11-25	17.5	18.0	-	18.0	18.0	16.5	17.5	16.5	18.0	17.0	17.0
12-3	14.0	15.0	15.0	16.0	17.0	16.5	16.0	14.0	15.5	16.0	15.0
12-10	16.5	16.5	16.5	17.0	17.0	16.0	16.5	16.0	16.5	16.0	17.0
12-17	15.0	15.5	15.0	15.5	15.0	14.5	15.5	15.0	16.5	15.5	16.0
12-23	14.5	15.0	15.0	14.5	15.5	15.0	16.0	15.0	16.0	15.0	16.0
12-30	17.0	16.5	16.0	16.0	16.0	16.0	14.5	15.5	-	-	-
1970	STATION NUMBERS										
10-14	1	4T	4B	5	8T	8B	9T	9B	15T	15B	-
1-14	12.0	11.0	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	-
1-27	16.5	15.5	14.0	15.0	14.0	16.0	13.0	15.5	13.5	15.5	-
2-4	9.5	11.0	11.0	13.0	13.0	13.0	13.0	13.5	13.0	13.0	-
11-10	19.0	20.7	20.7	-	20.5	20.3	20.7	20.5	21.1	20.8	20.2
12-9	17.0	19.0	18.5	-	20.0	18.5	19.0	19.0	19.5	19.0	18.0
1971	STATION NUMBERS										
1-6	1	4T	4B	5	8T	8B	9T	9B	15T	15B	16
1-6	26.0	-	-	-	25.5	25.5	25.0	25.5	26.0	26.0	-
2-10	-	-	-	-	-	-	15.6	15.6	16.0	15.3	-
3-10	16.3	16.6	16.6	17.5	17.4	17.4	17.1	17.0	17.0	17.1	16.3

HILLSBOROUGH COUNTY POLLUTION CONTROL COMMISSION

LAKE THONOTOSASSA STUDY

Summary of Alkalinity as mg/l CaCO₃

DATE	STATION NUMBERS												
1969	1	4T	4B	7	8T	8B	9T	9B	12	15T	15B	16	19
6-25	111	100	-	94	94	-	91	94	92	92	-	-	94
7-16	142	-	-	-	-	-	97	97	-	97	97	-	-
DATE	STATION NUMBERS												
1970	1	4T	4B	7	8T	8B	9T	9B	12	15T	15B	16	19
7-29	89	64	52	-	48	49	37	50	-	48	51	51	-

Summary of Chlorides in mg/l

DATE						
1969	1	2	6	9	15	16
2-20	30.0	17.0	16.5	-	-	17.0
4-23	43.0	-	-	29.0	19.0	-
5-7	-	-	-	20.0	113	-

Summary of COD Analysis in mg/l O₂

DATE	STATION	NO.
1969	1	9
2-20	135	-
3-5	144	-
3-20	92	-
4-23	316	-
5-7	544	-
6-4	60	37

Summary of LAS in mg/l

DATE	#
1971	1
2-24	107

T... Top
B... Bottom

HILLSBOROUGH COUNTY POLLUTION CONTROL COMMISSION

LAKE THONOTOSASSA STUDY

Summary of NO₃ - Analysis in mg/l

DATE	STATION NUMBER					DATE	STATION NUMBER					DATE	STATION NUMBER				
	1	9T	9B	15T	15B		1	9T	9B	15T	15B		1	9T	9B	15T	15B
1969						1970						1970					
6-4	.3	.3	-	-	-	1-14	.5	.5	-	.5	.7	1-6	-	0	0	0	0
6-25	.4	.2	.2	-	-	1-27	10.0	9.0	9.0	9.0	10.7	2-10	-	0	0	0	0
7-16	.5	1.6	12.4	6.0	.5	2-11	3.0	.8	.6	1.5	.5	2-24	-	0	0	0	0
7-30	.1	.1	.1	.2	.3	2-25	8.5	-	-	-	-	3-10	-	0	0	0	0
8-13	.1	0	.4	.1	.3	3-18	1.1	1.9	1.6	1.5	1.0						
8-27	.1	.2	.2	.1	.1	4-14	-	0	0	0	0						
9-10	0	0	0	0	0	5-12	15.6	.7	.5	.6	4.5						
10-15	4.1	.3	.3	.7	.6	6-10	-	0	0	.8	0.8						
10-29	.1	.9	.9	.4	.4	7-29	.3	0	0	0	0						
11-5	.8	.8	.8	.9	.8	10-14	-	0	0	0	-						
11-10	.3	-	-	-	-	11-10	-	.1	.3	.1	0						
11-12	.9	-	-	-	-	12-9	-	0	0	0	0						
11-19	1.8	.2	.1	0	0												
12-17	.3	.3	.4	.3	.3												
12-30	.2	0	0	0	0												

T ... Top
B ... Bottom

HILLSBOROUGH COUNTY POLLUTION CONTROL
COMMISSION

LAKE THONOTOSASSA STUDY

Summary of PO₄ Analysis in mg/l

DATE	STATION NUMBERS					DATE	STATION NUMBERS					DATE	STATION NUMBERS				
1969	1	9T	9B	15T	15B	1970	1	9T	9B	15T	15B	1971	1	9T	9B	15T	15B
6-4	3.1	2.9	-	-	-	1-14	1.8	1.8	-	1.9	2.0	1-6	-	0.9	1.1	1.1	1.1
6-25	0.1	0.1	0.1	-	-	1-27	2.7	2.0	2.2	2.1	2.4	2-10	-	1.1	1.1	1.1	1.1
7-16	0.5	0.9	3.5	1.6	1.7	2-11	1.8	2.0	1.9	2.0	1.9	2-24	-	1.2	1.2	1.2	1.2
7-30	4.3	0.2	0.1	0.1	0.1	2-25	2.1	-	-	-	-	3-10	-	1.4	1.4	1.5	1.7
8-13	2.9	2.7	2.6	2.7	2.7	3-18	2.0	2.1	2.2	2.2	2.3						
8-27	2.6	2.5	2.7	2.4	2.5	4-14	-	2.3	4.5	4.3	4.5						
9-10	2.3	1.9	2.0	1.8	2.8	5-12	2.1	2.2	2.2	2.2	2.2						
10-15	2.2	1.9	1.9	1.9	1.9	6-10	-	2.4	2.5	2.3	2.3						
10-29	3.2	1.7	1.7	1.7	1.7	7-29	2.7	1.5	1.8	1.5	1.6						
11-5	2.5	1.9	1.7	1.9	1.9	10-14	-	1.5	1.5	1.5	1.5						
11-10	1.4	-	-	-	-	11-10	-	0.2	0.9	0.5	0.6						
11-12	1.6	-	-	-	-	12-9	-	0.8	0.8	0.9	0.9						
11-19	1.3	0.9	0.9	0.9	0.9												
12-17	2.2	1.9	1.8	1.8	1.9												
12-30	2.3	1.8	1.9	1.9	1.9												

T ... Top B ... Bottom

HILLSBOROUGH COUNTY POLLUTION CONTROL
COMMISSION

LAKE THONOTOSASSA STUDY

Summary of DO Analysis in mg/l O₂

DATE	STATION NUMBERS															
1970	BRIDGE	1	4T	4B	5	8T	8B	9T	9B	10	13	15T	15B	16	17	
11-5	8.28	7.20	-	-	7.28	-	-	6.34	6.04	6.54	6.86	-	-	7.24	6.73	
11-10	-	7.22	6.99	6.91	-	6.09	5.62	7.59	6.21	-	-	8.59	7.81	7.25	-	
11-12	7.62	8.52	-	-	8.64	-	-	8.52	6.20	7.94	8.30	-	-	8.82	7.52	
11-20	8.36	8.84	-	-	8.48	-	-	8.94	7.56	9.14	8.64	-	-	9.10	8.46	
12-3	7.50	6.50	-	-	6.62	-	-	10.18	5.16	10.02	8.88	-	-	9.60	9.94	
12-9	-	7.00	-	-	-	6.85	6.60	7.45	-	-	-	7.60	6.83	8.08	-	
12-10	7.80	7.96	-	-	8.30	-	-	8.14	6.12	8.06	7.90	-	-	8.32	7.86	
12-17	6.80	7.74	-	-	7.90	-	-	7.98	7.48	8.04	7.74	-	-	8.34	8.02	
DATE	STATION NUMBERS															
1971	BRIDGE	1	4T	4B	5	8T	8B	9T	9B	10	13	15T	15B	16	17	
1-3	5.54	8.58	-	-	8.72	-	-	7.66	7.43	8.66	7.96	-	-	8.50	7.76	
1-6	-	4.28	7.76	-	-	7.79	7.66	7.90	7.15	-	-	7.93	7.68	7.92	-	
1-7	4.98	7.56	-	-	7.56	-	-	7.52	7.30	7.74	7.96	-	-	7.82	7.00	
1-13	3.40	7.32	-	-	7.80	-	-	9.26	6.16	9.46	8.96	-	-	8.58	9.04	
1-22	8.96	8.92	-	-	8.82	-	-	9.24	9.00	9.16	8.60	-	-	9.76	8.94	
1-27	7.12	9.04	-	-	8.94	-	-	8.28	8.16	8.68	8.64	-	-	8.48	8.46	
2-10	7.64	-	-	-	-	-	-	8.36	8.30	-	-	8.69	8.26	-	-	
3-10	-	8.09	8.84	8.81	8.79	8.27	8.30	8.79	9.46	-	-	8.36	8.37	9.22	-	

HILLSBOROUGH COUNTY POLLUTION CONTROL COMMISSION

LAKE THONOTOSASSA STUDY

Summary of DO Analysis in mg/l O2

DATE	STATIONS												NUMBERS											
	1	2	3	4T	4B	5	6	7	8T	8B	9T	9B	10	12	13	14	15T	15B	16	17	18	19	20	
1969																								
2-9	0	0	1.58	3.12	-	2.45	2.42	3.00	4.05	-	3.10	-	3.00	3.10	3.80	2.52	0.95	-	4.25	4.00	2.80	0.85	0.80	
11-5	2.75	-	-	7.18	-	-	-	-	6.61	-	7.14	6.69	-	-	-	-	6.67	6.55	-	-	-	-	-	
11-18	3.53	-	-	9.02	-	7.93	-	-	-	-	9.19	8.66	-	-	-	-	-	-	-	-	-	-	-	
11-19	0	-	-	9.06	-	8.45	-	-	10.90	-	8.80	8.38	-	-	-	-	9.18	7.83	-	-	-	-	-	
11-25	0.65	-	-	7.09	-	5.12	-	-	10.21	-	9.90	7.92	-	-	-	-	9.62	7.66	9.20	-	-	-	-	
12-3	1.62	-	-	6.41	-	7.14	-	-	7.11	-	7.44	6.91	-	-	-	-	7.74	7.07	7.46	-	-	-	-	
12-10	4.84	-	-	5.88	-	6.45	-	-	7.54	-	7.76	7.93	-	-	-	-	8.35	8.57	7.69	-	-	-	-	
12-17	2.13	-	-	2.07	-	3.24	-	-	5.99	-	6.30	6.19	-	-	-	-	9.65	5.35	7.89	-	-	-	-	
12-23	2.41	-	-	3.58	-	5.33	-	-	8.04	-	7.96	6.86	-	-	-	-	-	6.95	8.10	-	-	-	-	
12-30	1.31	-	-	6.32	-	5.87	-	-	6.97	-	6.56	6.14	-	-	-	-	6.46	5.96	6.57	-	-	-	-	
DATE																								
1970																								
1-7	1.50	-	-	-	-	-	6	7	8T	8B	9T	9B	10	12	13	14	15T	15B	16	17	18	19	20	
1-14	2.53	-	-	6.44	-	5.20	-	-	7.55	-	7.93	8.50	-	-	-	-	7.69	-	8.45	-	-	-	-	
1-20	0.38	-	-	2.87	-	4.54	-	-	6.60	-	7.94	3.69	-	-	-	-	6.14	-	9.37	-	-	-	-	
1-27	0	-	-	1.75	-	4.08	-	-	5.26	-	5.34	2.94	-	-	-	-	4.60	0	2.53	-	-	-	-	
1-28	0.30	-	-	-	-	4.15	-	-	-	-	5.97	-	-	-	8.15	-	-	-	4.50	5.30	-	-	-	
2-4	5.18	-	-	6.74	-	7.84	-	-	6.51	-	7.25	7.14	8.15	-	8.30	-	6.86	6.55	7.19	8.20	-	-	-	
2-11	1.79	-	-	2.42	-	1.50	-	-	-	-	7.68	7.52	8.20	-	7.85	-	8.68	1.52	8.20	8.10	-	-	-	

HILLSBOROUGH COUNTY POLLUTION CONTROL COMMISSION

LAKE THONOTOSASSA STUDY

Summary of Chlorophyll Analysis in $\mu\text{g/l}$

DATE	STATION	NO.	DATE	STATION	NO.	DATE	STATION	NO.
1969	9	15	1970	9	15	1971	9	15
2-21	61.7	59.9	1-14	18.5	10.2	1-6	19.1	17.6
3-5	62.9	60.3	1-27	33.4	59.5	2-10	14.1	12.6
4-23	53.6	50.7	2-4	36.3	29.7	2-24	17.9	19.0
5-7	72.2	56.3	2-11	24.4	17.6	3-10	15.1	17.2
7-16	201.8	196.3	3-18	27.4	25.1			
7-30	140.8	199.4	4-14	20.8	12.2			
8-13	153.8	192.2	5-12	37.0	42.4			
8-27	115.3	111.7	6-10	19.1	29.9			
9-10	112.8	130.5	7-29	29.5	40.2			
10-1	50.4	67.7	10-14	71.7	83.6			
10-15	59.4	55.9	11-10	42.0	49.6			
10-29	53.7	65.8	12-9	19.1	24.3			
11-5	34.2	39.8						
12-3	43.2	51.0						
12-17	39.8	68.8						
12-30	36.5	46.8						

Summary of Total Solids in mg/l

DATE	STATION NUMBER					DATE	STATION NUMBER				
	1	9T	9B	15T	15B		1	9T	9B	15T	15B
1969	1	9T	9B	15T	15B	1970	1	9T	9B	15T	15B
1-29	328	-	-	-	-	1-14	134	127	-	118	141
6-4	310	179	-	-	-	2-25	164	-	-	-	-
6-25	240	236	206	-	-	5-12	287	138	156	139	146
7-16	282	185	193	188	196						
8-27	154	149	157	156	153						
9-10	149	138	176	145	146						
12-2	-	143	138	136	137						
12-10	164	-	-	-	-						
12-17	139	128	130	120	147						
12-30	155	-	-	-	-						

LAKE THONOTOSASSA
WATER QUALITY STATIONS

