DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake:	STOCKER POND, LITTLE	Lake Area (ha):	7.49
Town:	SPRINGFIELD	Maximum depth (m):	2.9
County:	Sullivan	Mean depth (m):	1.5
River Basin:	Connecticut	Volume (m^3):	113000
Latitude:	43°28'29" N	Relative depth:	0.9
Longitude:	72°05'36" W	Shore configuration:	1.03
Elevation (ft):	1190	Areal water load (m/yr):	30.57
Shore length (m):	1000	Flushing rate (yr^{-1}):	20.30
Watershed area (ha):	450.6	P retention coeff.:	0.43
% watershed ponded:	0.0	Lake type:	natural

BIOLOGICAL:		4 January 1995	22 August 1994
DOM. PHYTOPLANKTON (% TOTAL)	#1	DINOBRYON 99%	CERATIUM 65%
	#2		SYNURA 20%
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			3.65
DOM. ZOOPLANKTON (% TOTAL)	#1	KELLICOTTIA 53%	KERATELLA 54%
	#2	ASPLANCHNA 16%	GASTROPUS 31%
	#3	LRG RND CILIATE SPP 12%	NAUPLIUS LARVA 11%
ROTIFERS/LITER		216	462
MICROCRUSTACEA/LITER		8	70
ZOOPLANKTON ABUNDANCE (#/L)		259	532
VASCULAR PLANT ABUNDANCE			Abundant
SECCHI DISK TRANSPARENCY (m)			2.9 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)		8.1	4.8
BACTERIA (E. coli, #/100 ml)	#1		9
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m^3) : None
Anoxic volume (m^3) : None

CHEMICAL:

Lake: STOCKER POND, LITTLE
Town: SPRINGFIELD

	4 January 1995		22 August 1994		
DEPTH (m)	1.0	2.0	1.0		2.0
pH (units)	6.0	5.9	6.7		6.5
A.N.C. (Alkalinity)	5.7	5.5	5.6		4.7
NITRATE NITROGEN	0.11	0.12	< 0.05		< 0.05
TOTAL KJELDAHL NITROGEN	0.22	0.18	0.29		0.42
TOTAL PHOSPHORUS	0.007	0.007	0.009		0.012
CONDUCTIVITY (µmhos/cm)	27.6	27.6	25.5		24.6
APPARENT COLOR (cpu)	39	41	55		50
MAGNESIUM			0.44		
CALCIUM			2.5		
SODIUM			1.1		
POTASSIUM			0.38		
CHLORIDE	< 2	< 2	< 2		< 2
SULFATE	3	3	3		3
TN : TP	47	43	32		35
CALCITE SATURATION INDEX			3.4		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1994

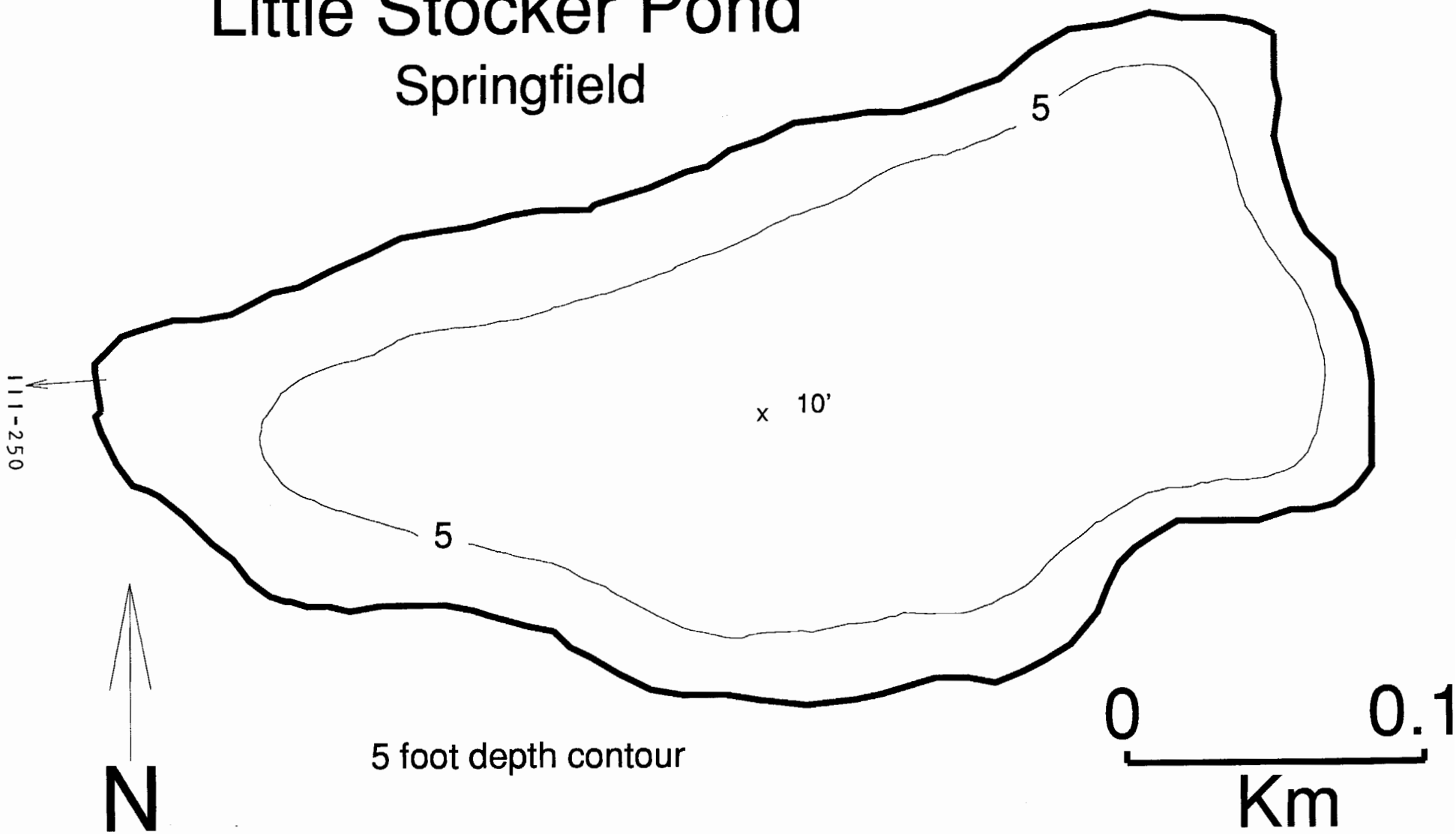
D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	2	5	0	7	Meso.

COMMENTS:

1. AKA Sanborn Pond.
2. This is a shallow, tea-colored pond with abundant plant growth.

Little Stocker Pond

Springfield



5 foot depth contour

FIELD DATA SHEET

LAKE: STOCKER POND, LITTLE TOWN: SPRINGFIELD
DATE: 08/22/94 WEATHER: OVERCAST; MID 60'S

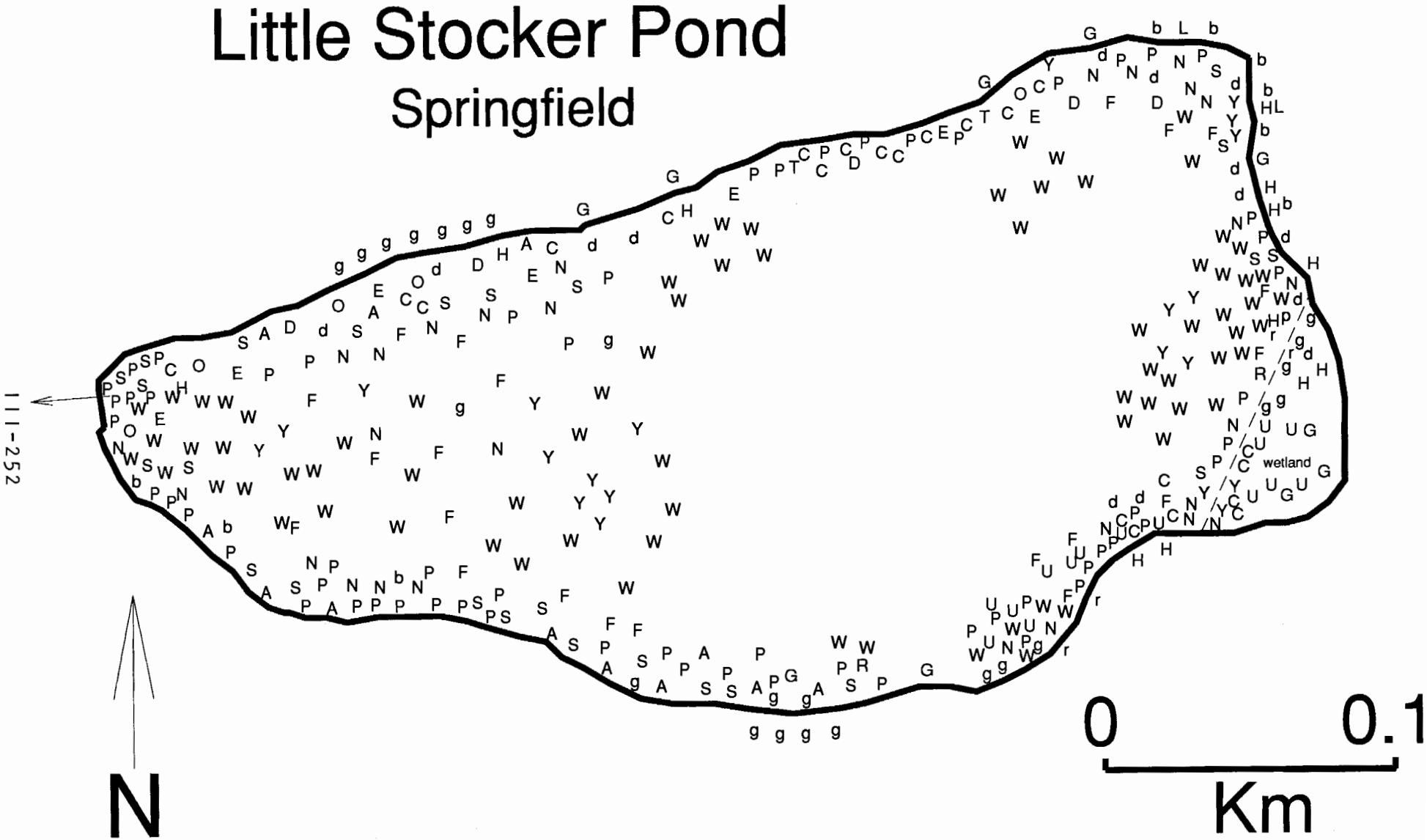
	DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
	0.1	20.5	7.9	85 %
	0.5	20.5	8.0	88 %
	1.0	20.5	8.0	88 %
	1.5	20.5	8.0	88 %
	2.0	20.0	6.9	75 %
	2.5	20.0	4.8	52 %

SECCHI DISK (m): 2.9 VOB COMMENTS:
BOTTOM DEPTH (m): 2.9
TIME: 1200

*Dissolved oxygen values are in mg/L

Little Stocker Pond

Springfield



AQUATIC PLANT SURVEY

LAKE: STOCKER POND, LITTLE TOWN: SPRINGFIELD DATE: 08/22/94

Key	PLANT NAME		ABUNDANCE
	GENERIC	COMMON	
U	Utricularia	Bladderwort	Abundant
P	Pontederia cordata	Pickerelweed	Common
W	Potamogeton	Pondweed	Common/Abun
S	Sparganium	Bur reed	Common
g	Myrica gale	Sweet gale	Common
N	Nymphaea	White water lily	Scat/Common
Y	Nuphar	Yellow water lily	Scattered
C	Cyperaceae	non-flowering sedge	Common
A	Sagittaria	Arrowhead	Sparse
F	Nymphoides cordatum	Floating heart	Sparse
b	Scirpus	Bulrush	Sparse
d	Dulichium arundinaceum	Three-way sedge	Scat/Common
r	Drosera	Sundew	Sparse
H	Hypericum	St. John's-wort	Scattered
R	Sarracenia purpurea	Pitcher-plant	Sparse
G	Gramineae	Grass family	Scattered
L	Lysimachia terrestris	Swampcandle	Sparse
O	Cephalanthus occidentalis	Buttonbush	Sparse
T	Typha	Cattail	Sparse
E	Eriocaulon septangulare	Pipewort	Sparse
D	Decodon verticillatus	Swamp loosestrife	Sparse
h	Zannichellia palustris	Horned pondweed	Common

OVERALL ABUNDANCE: Abundant

GENERAL OBSERVATIONS:

1. Bladderwort was abundant around the shoreline -- more than depicted on the map.
2. Freshwater sponges were observed.
3. Zannichellia was common in the pond but is not depicted on the map.