Appendix D

Water Quality Data

Some of the data needed to assess the vulnerability of New Gloucester's lakes to phosphorus pollution are shown in the following table:

Lake Name	Surface Area (acres)	Water Quality Category	Direct Drainage Area in Town (acres)	Percent of Watershed In Town	Phosphorus Coefficient (pounds/part per billion/ year)
Crystal		Mod/Sen	140	13	2.07
Lily		Mod/Sen	615	100	4.43
Notched		Mod/Stable	0	.2	0.00
Runaround		Mod/Sen	2085	26	11.79
Sabbathday		Mod/Stable	2594	76	30.58
Shaker Bog		Mod/Sen	148	28	1.78
Upper Range		Mod/Sen	548	21	6.19

Notes:

1. Surface area is the number of acres in the surface of each lake.

2. Water Quality Category refers to one of six possible categories to which DEP assigns the existing water quality of any given lake. Moderate/Sensitive (Mod/Sen) means average water quality, but high potential for degradation due to phosphorus recycling from lake bottom sediments. Moderate/Stable means average water quality, not declining under present phosphorus loading. Outstanding means exceptional water quality.

3. Direct Drainage Area refers to the acreage of land which drains directly into the lake from within the Town.

4. Percent of Watershed within the Town (when less than 100%) indicates that some portion of the watershed lies in another town or towns.

5. The Phosphorus Coefficient is DEP's estimate of how many pounds of additional phosphorus, exported from watershed to the lake, would raise the phosphorus concentration in the lake by 1 part per billion. For all lakes except Lily Pond, whose watershed is contained entirely within New Gloucester, this number has been adjusted to reflect only the proportional amount of phosphorus from the direct watershed located within the Town.