

The Federation of Vermont Lakes and Ponds

Kent Henderson, Board Member

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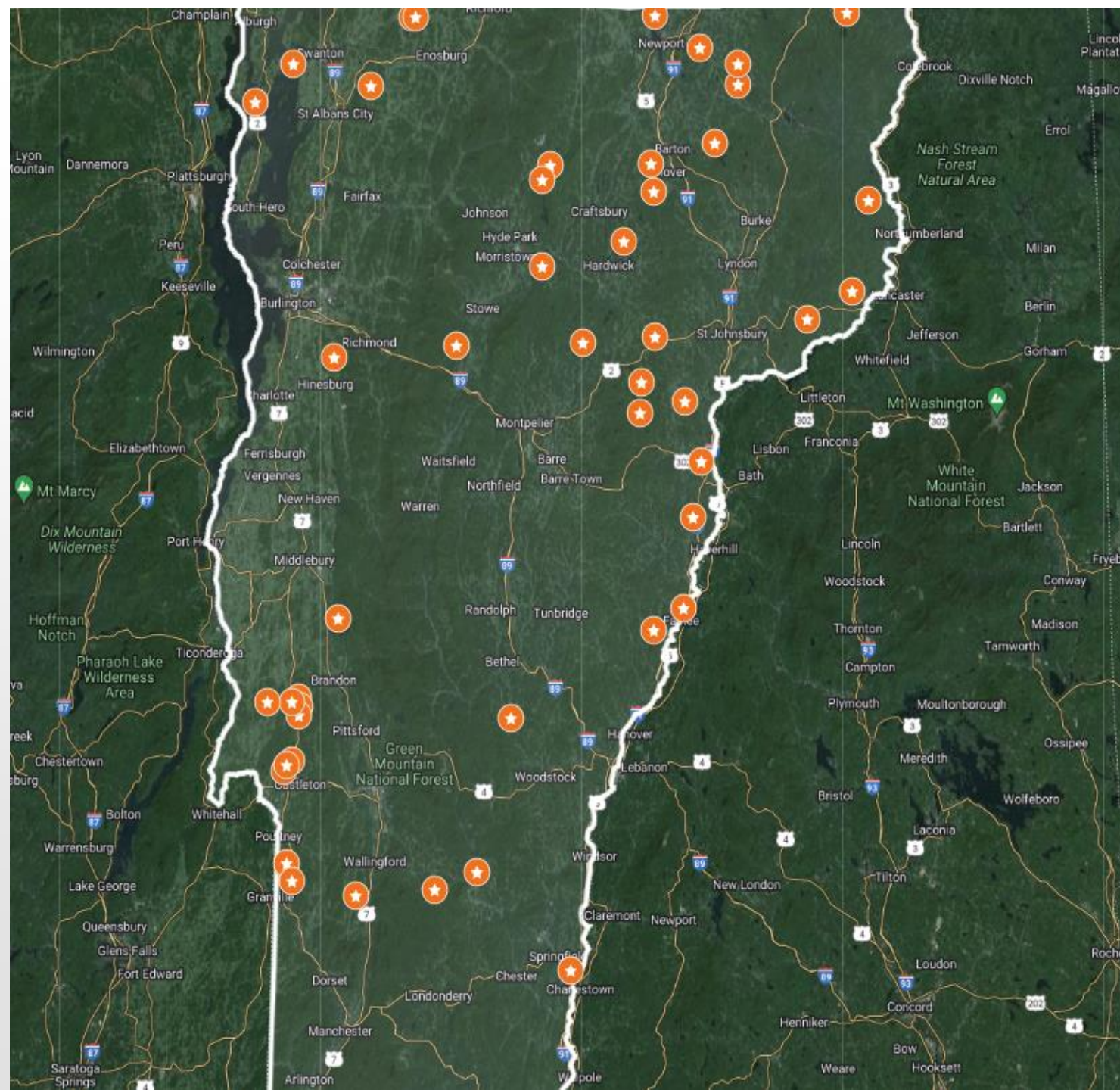


*Preserving and Protecting
Vermont's Lakes and Ponds*

Lake St. Catherine

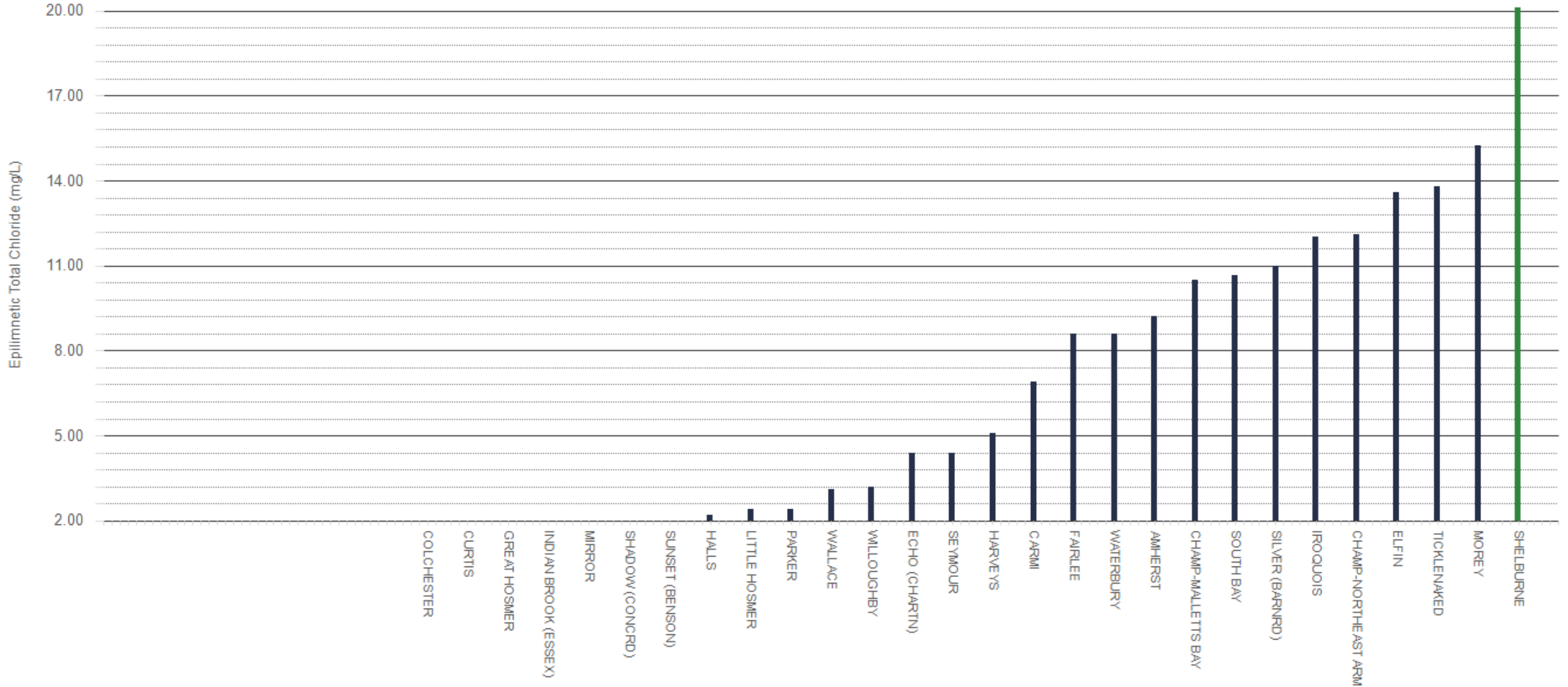
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FOVLAP Member Lake Associations



Epilimnetic Summer Averages

Average Summer Epilimnetic Total Chloride for lakes in Vermont and regions of Lake Champlain For 2024

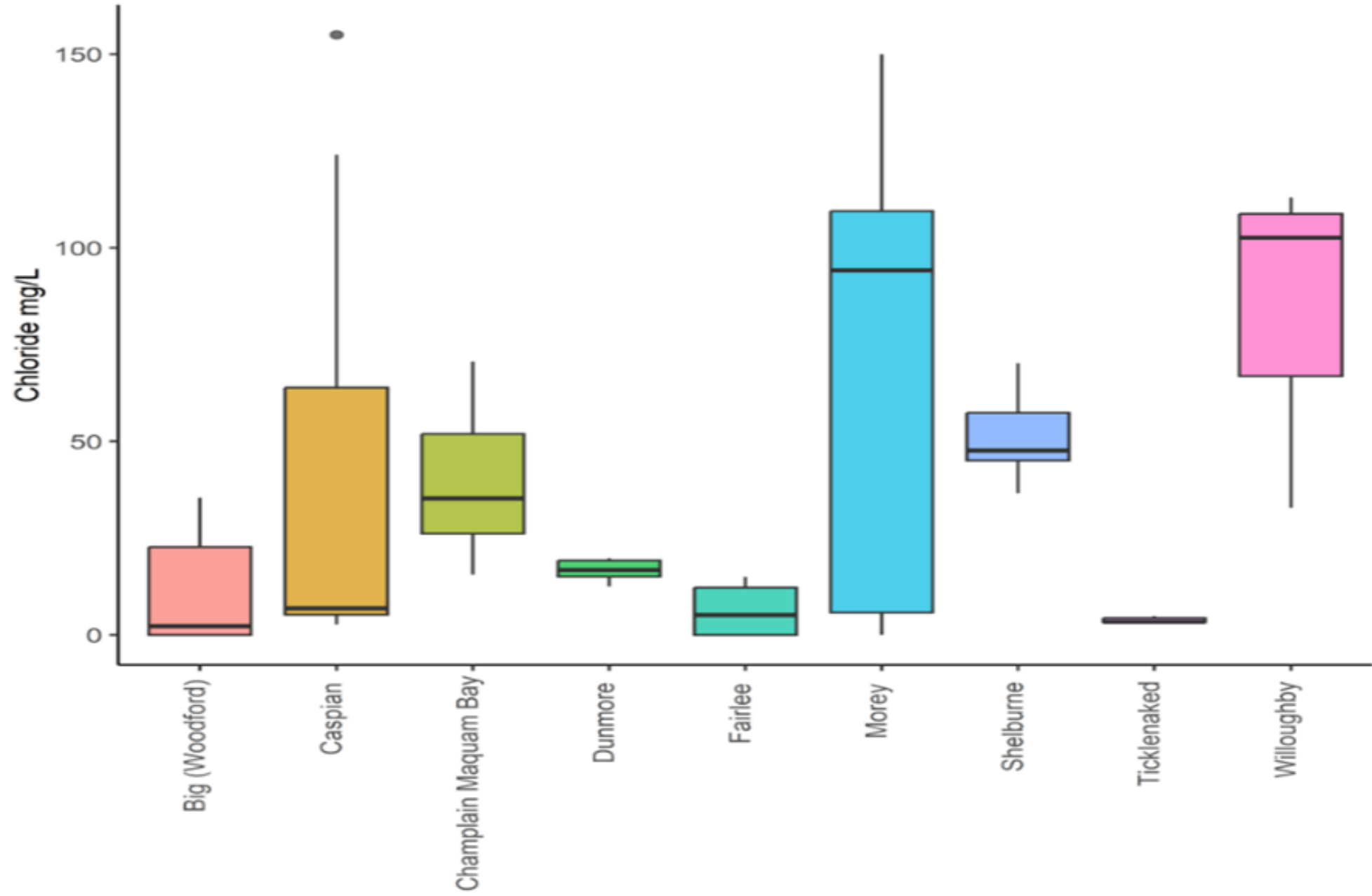


Vermont's Water Quality Standards

- Only 2 inland lakes exceed the Vermont Water Quality Standards, these are located right along Route 89.

Note: Click on a table row to view a popup plot of the corresponding data.

LakeID	Characteristic	mean	unit	n
LOWER WINOOSKI;	TCl_surface	433.8	mg/l	1
UPPER WINOOSKI;	TCl_surface	394.6	mg/l	1



Choose which dataset you would like to view:

Spring Turnover
 Lay Monitoring

Choose how you would like to view the data:

By Lake
 By Characteristic
 Map

Select Basin (optional)
 --All--

Select Lake Group (optional)
 --All--

Select One Characteristic
 TCI

Minimum Number of Samples
 1

Start Year
 2006

End Year
 2023

Table

Note: Click on a table row to view a popup plot of the corresponding data.

LakeID	Characteristic	mean	unit	n	p.value	trend
CARMI	TCI_bottom	7	mg/l	12	0.0002	↑
CARMI	TCI_surface	6.9	mg/l	12	0.0003	↑
MOREY	TCI_surface	12.5	mg/l	10	0.0009	↑
SHELBURNE	TCI_bottom	24.5	mg/l	15	0.0013	↑
SHELBURNE	TCI_surface	24.5	mg/l	15	0.0008	↑
TICKLENAKED	TCI_bottom	13.7	mg/l	16	0.0007	↑
TICKLENAKED	TCI_surface	10.4	mg/l	16	0.0005	↑
CASPIAN	TCI_bottom	6.2	mg/l	7	0.0334	↑
LITTLE (WELLS)	TCI_surface	9	mg/l	5	0.0143	↑
MEMPHREMAGOG	TCI_surface	8.2	mg/l	12	0.0282	↑
MOREY	TCI_bottom	13.9	mg/l	10	0.0397	↑
RESCUE	TCI_surface	5.8	mg/l	6	0.0146	↑

Spring Surface TCL

- This map shows the extent of TCL samples we have from spring on Vermont's inland lakes. Empty circles mean we have less than 5 yrs of data. The size of the circle equates to concentration, but even the big circles have relatively low concentrations as measured during spring turnover and at 1 m below the surface. If a lake is between 2 & 4 m deep, we take the sample mid depth, if it is less than 2 m deep we take a grab sample from 0.2m.
- 8 lakes have significantly increasing TCL: Carmi, Caspian, Little, Memphremagog, Morey, Rescue, Shelburne, and Ticklenaked. These are sampled more frequently than most lakes. I suspect once we get more years of data on more lakes we will see more lakes are increasing in TCL.

