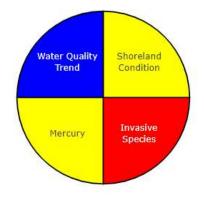


# Vermont Lake Score Card Ticklenaked Pond





Watershed:

**Highly Disturbed** 

WQ Standards: Stressed

#### Details

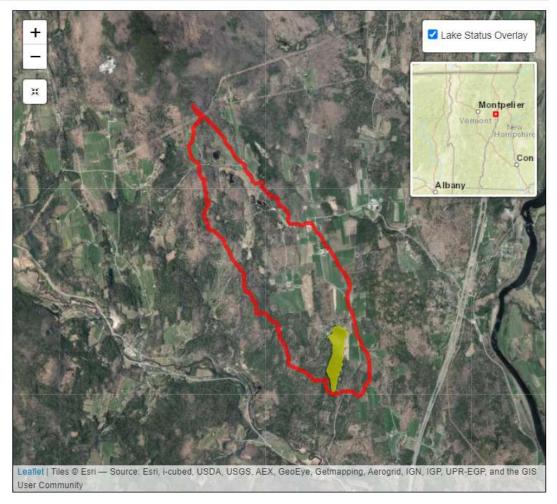
Stressed - Phosphorus

Stressed - Organic Enrichment - DO

### Color Scoring System

- Good Conditions
- ☐ Fair Conditions
- Poor Conditions
- ☐ Insufficient Data

Learn How Lakes Are Scored



Scores Water Quality Data Lake Information (Annual Means, Alum Treatment in 2014)

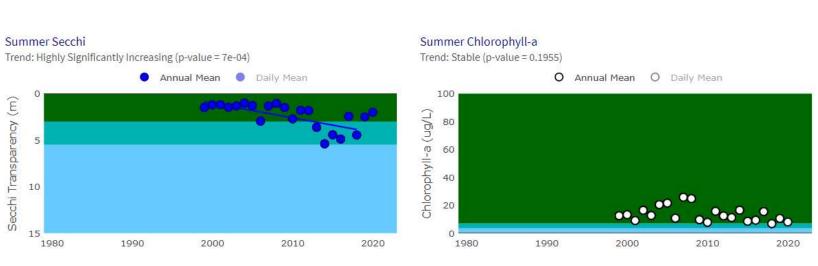
Plots

Trophic condition thresholds are indicated by shading:

Hypereutrophic Eutrophic Mesotrophic Oligotrophic

Click on "Daily Mean" or "Annual Mean" to toggle on or off the data layer.

#### Spring Phosphorus Summer Phosphorus Trend: Significantly Decreasing (p-value = 0.0232) Trend: Highly Significantly Decreasing (p-value = 0.0057) Annual Mean Annual Mean Daily Mean 150 150 Total Phosphorus (ug/L) Total Phosphorus (ug/L) 1990 2000 2010 2020 1980 1990 2000 2010 2020 1980



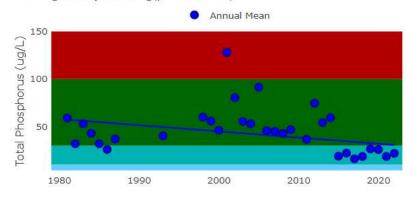
Scores Water Quality Data (All Annual Data, Alum Treatment in 2014)

#### Plots

- · Trophic condition thresholds are indicated by shading:
- Hypereutrophic Eutrophic Mesotrophic Oligotrophic
- Click on "Daily Mean" or "Annual Mean" to toggle on or off the data layer.

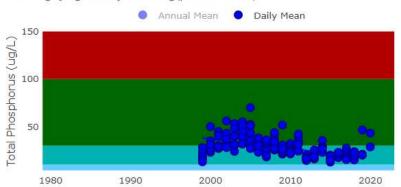
#### Spring Phosphorus

Trend: Significantly Decreasing (p-value = 0.0232)



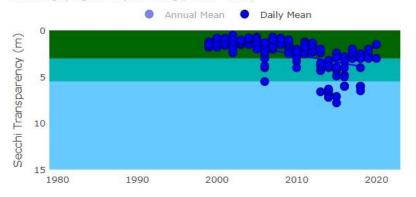
#### Summer Phosphorus

Trend: Highly Significantly Decreasing (p-value = 0.0057)



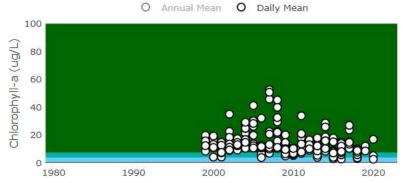
#### Summer Secchi

Trend: Highly Significantly Increasing (p-value = 7e-04)



#### Summer Chlorophyll-a

Trend: Stable (p-value = 0.1955)



# **VT DEC Lay Monitoring Report**

## TICKLENAKED POND

Annual Data (Station 1)							Annual Data (Station 1)						
	Days Samp <mark>l</mark> ed	Secchi S	Secchi View Tube	Chloro- a	Summer TP	Spring TP		Days Sampled	Secchi	Secchi View Tube	а	Summer TP	Spring TP
Year		(m)	(m)	(µg/l)	(µg/I)	(µg/I)	Year		(m)	(m)	(µg/l)	(µg/I)	(µg/l)
1979						31.0	2001	9	1.2		9.1	33.0	122.0
1981						59.0	2002	9	1.5		16.4	36.2	78.7
1982						32.0	2003	9	1.3		12.7	37.1	55.3
1983						53.0	2004	9	1.0		20.5	44.0	53.0
1984						43.0	2005	9	1.3		21.6	42.1	91.3
1985						32.0	2006	10	2.9		10.8	29.4	45.8
1986						26.0	2007	9	1.3		25.7	27.7	45.0
1987						37.0	2008	10	1.0		24.8	32.2	42.8
1993						40.3	2009	10	1.5		9.7	27.8	46.8
1998						60.0	2010	9	2.7		7.8	25.4	
1999	8	1.5		12.5	18.6	55.7	2011	10	1.8		15.7	31.1	36.5
2000	7					46.3	2012	8	1.8		12.4	17.0	72.4
							2013	9	3.6		11.2	19.9	54.2
							2014	9	5.4		16.5	27.8	59.3
							2015	9	4.4		8.5	17.3	19.0
							2016	9	4.9		9.3	20.7	22.0
							2017	9	2.4		15.5	20.8	16.1
							2018	9	4.4		6.8	18.6	19.2

**Period of VT DEC TMDL Monitoring** 

 2014
 9
 5.4
 16.5
 27.8
 59.3

 2015
 9
 4.4
 8.5
 17.3
 19.0

 2016
 9
 4.9
 9.3
 20.7
 22.0

 2017
 9
 2.4
 15.5
 20.8
 16.1

 2018
 9
 4.4
 6.8
 18.6
 19.2

 2019
 3
 26.6

 2020
 3
 25.9

 2021
 18.6

 2022
 21.9

\*Ticklenaked Pond Summer TP Standard = 24 ug/l (Euphotic Zone)

