

Water Quality

- 17 years of monitoring through the Adirondack Lake Assessment Program (ALAP)
- Three Aquatic Stressors: Eutrophication, Acidification, Salinization
- Lake has been fairly stable, no trends

- **Eutrophication (Productivity)**
 - Trophic indicators (transparency, total P, & Chlorophyll-a) are relatively stable
 - Transparency is greater than 60% of lakes in ALAP (68 lakes in 2019)
 - Trophic indicators suggest a moderately productive lake (mesotrophic)
 - Two-thirds of the lakes in ALAP are moderately productive

- **Acidification**
 - Lake pH is alkaline and is relatively stable over time
 - pH is greater than 90% of lakes in ALAP (fifth highest pH)

- **Salinization**
 - Lake has high salt concentration (sodium & chloride) from road salting in watershed
 - Only Butternut Pond had a higher salt concentration (58.7 mg/L chloride)
 - Relatively stable over the last 10 years
 - Lake has calcium concentrations in the range to support Zebra mussels
 - Only Augur Lake (15.1 mg/L) and Long Pond (14.5 mg/L) had a higher calcium concentration

Water Quality Indicator	6/29/2019	7/20/2019	8/25/2019	Average	Trend
Transparency (m)	3.3	4.0	4.0	3.8	No Trend
Total Phosphorus (µg/L)	4.3	5.5	2.1	4.0	No Trend
Chlorophyll- <i>a</i> (µg/L)	4.7	2.5	2.3	3.2	No Trend
Laboratory pH	7.6	8.1	7.8	7.8	No Trend
Sp. Conductance (µS/cm)	245.0	247.0	262.0	251.3	No Trend
Color (Pt-Co)	11.8	21.4	11.8	15.0	No Trend
Alkalinity (mg/L)			30.2	30.2	No Trend
Chloride (mg/L)			57.6	57.6	No Trend
Calcium (mg/L)			13.3	13.3	Not Analyzed
Sodium (mg/L)			31.4	31.4	No Trend