Adirondack Lake Assessment Program 2025 Update

To improve reporting efficiency, maintain financial viability, and avoid unnecessary redundancies, the Adirondack Lake Assessment Program (ALAP) has moved from producing an annual report to a five-year reporting cycle. During the interim years, the ALAP coordinators will provide a summary of the current year's data to participating lakes.

For more information on ALAP and participating lakes please see the comprehensive report: ***Adirondack Lake Assessment Program 2023 Report: A Community Science Lake Monitoring Program in its 26th Year.*** This report provides readers with the appropriate background information on interpreting lake data, a regional analysis of the water quality characteristics of Adirondack lakes, and a synthesis of current and historical water quality data for all participating lakes.

In 2023, road salt influence status was updated with new thresholds based on the most recent scientific literature and to align with the Adirondack Road Salt Reduction Task Force Assessment and Recommendations.

Old Thresholds	
Road Salt Influence	**Chloride (mg/L)**
Not Significant	≤0.9
Low	1.0-4.9
Moderate	5.0-19.9
High	≥20.0

New Thresholds	
Road Salt Influence	**Chloride (mg/L)**
Not Significant	≤0.9
Low	1.0-9.9
Moderate	10.0-39.9
High	≥40.0

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Click on the lake name to see the 2025 data.

Amber Lake 4
Arbutus Lake 5
Augur Lake 6
Austin Pond 7
Big Moose Lake 8
Blue Mountain Lake 9
Brandreth Lake 11
Canada Lake 12
Chazy Lake 13
Clear Pond 16
Cranberry Lake 17
Eagle Lake 18

Chazy Lake

Trophic State	Acidity	Acid Neutralizing Capacity	Road Salt Influence
Oligotrophic	Circumneutral	Adequate	Moderate

Water quality values for Chazy Lake during the 2025 sampling season. BDL = below detection limit. VOB = visible on bottom.

Eagle Point

Water Quality Indicator	6/13/2025	7/11/2025	8/9/2025	Average
Laboratory pH	7.5	7.4	7.9	7.6
Sp. Conductance (µS/cm @ 25°C)	83.8	85.3	86.8	85.3
Apparent Color (mg/L Pt-Co)	12.4	12.4	6.2	10.3
CDOM (µg/L)	94.8	101.9	65.0	87.2
Chlorophyll-a (µg/L)	1.4	0.9	1.5	1.2
Transparency (m)	5.4	6.6	6.9	6.3
Alkalinity (mg/L as $CaCO_3$)	23.7	26.6	25.9	25.4
Chloride (mg/L)	10.2	10.2	10.5	10.3
Sulfate (mg/L as SO_4)	1.9	1.9	2.0	2.0
Total Phosphorus (µg/L as P)	5.3	4.5	3.6	4.4
Nitrate-Nitrite (µg/L as N)	BDL	BDL	BDL	BDL
Ammonia (µg/L as NH_3-N)	BDL	BDL	BDL	BDL
Total Nitrogen (µg/L)	270.7	288.7	242.9	267.4
Dissolved Organic Carbon (mg/L)	3.6	3.5	3.4	3.5
Calcium (mg/L)	7.1	7.7	7.2	7.4
Sodium (mg/L)	6.7	6.8	6.8	6.8

South Inlet

Laboratory pH	7.7	7.4	7.6	7.6
Sp. Conductance (µS/cm @ 25°C)	83.4	85.5	85.9	84.9
Apparent Color (mg/L Pt-Co)	12.4	15.5	21.6	16.5
CDOM (µg/L)	98.8	68.8	63.7	77.1
Chlorophyll-a (µg/L)	1.8	1.1	1.3	1.4
Transparency (m)	VOB	VOB	VOB	VOB
Alkalinity (mg/L as $CaCO_3$)	23.7	26.4	25.8	25.3
Chloride (mg/L)	10.0	10.0	10.4	10.1
Sulfate (mg/L as SO_4)	2.0	1.9	2.0	2.0
Total Phosphorus (µg/L as P)	7.4	5.4	4.0	5.6
Nitrate-Nitrite (µg/L as N)	BDL	BDL	BDL	BDL
Ammonia (µg/L as NH_3-N)	BDL	BDL	BDL	BDL
Total Nitrogen (µg/L)	269.0	273.5	221.2	254.6
Dissolved Organic Carbon (mg/L)	3.8	3.8	3.3	3.6
Calcium (mg/L)	7.1	7.4	7.4	7.3
Sodium (mg/L)	6.6	6.9	6.8	6.8

Smith Bay

Water Quality Indicator	5/16/2025	6/13/2025	7/11/2025	8/9/2025	9/5/2025	Average
Laboratory pH	7.7	7.6	7.4	7.9	7.6	7.6
Sp. Conductance (µS/cm @ 25°C)	84.4	83.8	87.0	87.0	87.6	86.0
Apparent Color (mg/L Pt-Co)	27.8	12.4	15.5	9.3	6.2	14.2
CDOM (µg/L)	105.7	90.4	73.3	74.2	58.5	80.4
Chlorophyll-a (µg/L)	1.6	1.5	1.0	1.1	1.6	1.4
Transparency (m)	VOB	VOB	VOB	VOB	VOB	VOB
Alkalinity (mg/L as $CaCO_3$)	23.7	23.6	28.0	26.4	24.7	25.3
Chloride (mg/L)	10.3	10.1	10.3	10.4	10.6	10.3
Sulfate (mg/L as SO_4)	2.0	1.9	1.9	2.0	2.0	2.0
Total Phosphorus (µg/L as P)	3.1	5.0	5.5	3.8	4.4	4.4
Nitrate-Nitrite (µg/L as N)	BDL	BDL	BDL	BDL	BDL	BDL
Ammonia (µg/L as NH_3-N)	BDL	BDL	BDL	BDL	BDL	BDL
Total Nitrogen (µg/L)	254.5	209.9	309.5	215.4	173.9	232.6
Dissolved Organic Carbon (mg/L)	3.5	3.5	4.2	3.2	3.3	3.6
Calcium (mg/L)	7.0	7.1	7.9	7.4	7.7	7.4
Sodium (mg/L)	7.3	6.6	7.0	6.8	7.2	7.0

Seine Bay

Laboratory pH	7.7	7.8	7.6	7.8	7.8	7.7
Sp. Conductance (µS/cm @ 25°C)	85.6	83.7	87.1	87.5	87.7	86.3
Apparent Color (mg/L Pt-Co)	12.4	12.4	12.4	9.3	0.0	9.3
CDOM (µg/L)	100.0	106.3	88.0	69.8	69.2	86.7
Chlorophyll-a (µg/L)	1.6	1.7	1.0	2.2	1.6	1.6
Transparency (m)	VOB	VOB	VOB	VOB	VOB	VOB
Alkalinity (mg/L as $CaCO_3$)	23.6	23.4	26.7	25.8	23.2	24.5
Chloride (mg/L)	10.7	10.1	10.2	10.7	10.7	10.5
Sulfate (mg/L as SO_4)	2.0	2.0	1.9	2.0	2.0	2.0
Total Phosphorus (µg/L as P)	4.1	5.3	4.0	7.0	BDL	4.4
Nitrate-Nitrite (µg/L as N)	BDL	BDL	BDL	BDL	BDL	BDL
Ammonia (µg/L as NH_3-N)	BDL	BDL	BDL	BDL	BDL	BDL
Total Nitrogen (µg/L)	229.7	194.3	235.2	277.3	184.3	224.2
Dissolved Organic Carbon (mg/L)	3.7	3.6	3.4	3.4	3.3	3.5
Calcium (mg/L)	7.1	7.0	7.6	7.4	7.8	7.4
Sodium (mg/L)	7.6	6.6	7.1	6.9	7.2	7.1

Deep Hole- Halfway Point

Water Quality Indicator	5/16/2025	6/13/2025	7/11/2025	8/9/2025	9/5/2025	Average
Laboratory pH	7.4	7.8	7.4	7.9	7.9	7.7
Sp. Conductance (µS/cm @ 25°C)	82.1	84.9	86.4	86.3	88.3	85.6
Apparent Color (mg/L Pt-Co)	9.3	15.5	12.4	6.2	9.3	10.5
CDOM (µg/L)	86.4	98.3	65.1	96.3	77.9	84.8
Chlorophyll-a (µg/L)	1.4	1.5	0.9	1.2	1.8	1.4
Transparency (m)	6.1	5.9	6.4	6.9	6.3	6.3
Alkalinity (mg/L as $CaCO_3$)	23.8	23.3	26.6	25.8	24.2	24.7
Chloride (mg/L)	10.0	10.3	10.1	10.4	10.6	10.3
Sulfate (mg/L as SO_4)	2.0	2.0	1.9	2.0	2.0	2.0
Total Phosphorus (µg/L as P)	3.7	9.9	4.2	5.7	4.0	5.5
Nitrate-Nitrite (µg/L as N)	BDL	BDL	BDL	BDL	BDL	BDL
Ammonia (µg/L as NH_3-N)	BDL	BDL	BDL	BDL	BDL	BDL
Total Nitrogen (µg/L)	178.4	369.7	259.8	225.1	235.7	253.7
Dissolved Organic Carbon (mg/L)	3.3	9.2	3.6	3.3	3.3	4.6
Calcium (mg/L)	7.0	7.1	7.9	7.3	7.8	7.4
Sodium (mg/L)	7.1	6.7	6.9	6.8	7.2	6.9