Chazy Lake

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

Water quality values for Chazy Lake during the 2024 sampling season. BDL = below detection limit. VOB = visible on bottom.

Eagle Point

Water Quality Indicator	6/16/2024	7/14/2024	8/14/2024	Average
Laboratory pH	6.5	7.1	7.2	6.9
Sp. Conductance (µS/cm @ 25°C)	81.1	82.1	82.7	82.0
Apparent Color (mg/L Pt-Co)	25.1	21.5	25.1	23.9
CDOM (µg/L)	96.0	81.8	100.4	92.8
Chlorophyll-a (µg/L)	1.1	1.2	2.1	1.5
Transparency (m)	6.4	6.4	6.1	6.3
Alkalinity (mg/L as $CaCO_3$)	22.1	22.0	22.3	22.1
Chloride (mg/L)	9.9	10.7	9.6	10.1
Sulfate (mg/L as SO_4)	2.0	1.8	1.9	1.9
Total Phosphorus (µg/L as P)	4.8	4.4	3.8	4.3
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)	218.5	251.5	201.6	223.9
Dissolved Organic Carbon (mg/L)	3.8	3.7	3.9	3.8
Calcium (mg/L)	6.6	7.1	6.9	6.8
Sodium (mg/L)	6.5	6.7	6.7	6.6

South Inlet

Laboratory pH	6.7	7.5	7.2	7.1
Sp. Conductance (µS/cm @ 25°C)	80.4	81.4	80.6	80.8
Apparent Color (mg/L Pt-Co)	25.1	28.7	35.8	29.9
CDOM (µg/L)	110.7	79.8	99.5	96.7
Chlorophyll-a (µg/L)	1.3	1.0	1.9	1.4
Transparency (m)	VOB	VOB	VOB	VOB
Alkalinity (mg/L as $CaCO_3$)	22.5	24.2	23.1	23.3
Chloride (mg/L)	9.8	10.4	9.2	9.8
Sulfate (mg/L as SO_4)	1.9	1.7	1.9	1.8
Total Phosphorus (µg/L as P)	4.7	3.5	BDL	3.6
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)	219.1	310.7	211.6	247.1
Dissolved Organic Carbon (mg/L)	4.1	4.0	3.8	4.0
Calcium (mg/L)	6.6	6.9	6.9	6.8
Sodium (mg/L)	6.4	6.5	6.4	6.4

Smith Bay

Laboratory pH	6.8	6.8	7.7	7.2	7.0	7.1
Sp. Conductance (µS/cm @ 25°C)	81.6	82.8	85.3	84.1	83.7	83.5
Apparent Color (mg/L Pt-Co)	7.1	35.8	25.1	28.7	21.5	23.6
CDOM (µg/L)	120.7	110.3	97.5	102.4	73.3	100.8
Chlorophyll-a (µg/L)	1.9	0.7	1.6	1.8	1.7	1.6
Transparency (m)	VOB	VOB	VOB	VOB	VOB	VOB
Alkalinity (mg/L as $CaCO_3$)	23.1	23.1	24.9	21.7	24.4	23.4
Chloride (mg/L)	10.3	10.1	11.2	9.8	9.3	10.1
Sulfate (mg/L as SO_4)	1.9	1.9	1.8	1.9	1.8	1.9
Total Phosphorus (µg/L as P)	5.9	5.4	6.4	3.6	4.4	5.1
Nitrate-Nitrite (µg/L as N)	BDL	BDL	BDL	BDL	BDL	BDL
Ammonia (µg/L as NH_3-N)	BDL	BDL	BLD	BDL	34.6	BDL
Total Nitrogen (µg/L)	230.0	220.4	315.9	212.4	222.6	240.3
Dissolved Organic Carbon (mg/L)	3.8	3.7	4.2	3.8	4.0	3.9
Calcium (mg/L)	6.9	6.7	7.1	7.2	7.0	7.0
Sodium (mg/L)	6.0	6.6	6.9	6.8	6.7	6.6

Seine Bay

Laboratory pH	6.9	6.8	7.6	7.0	6.8	7.0
Sp. Conductance (µS/cm @ 25°C)	84.4	83.7	82.6	82.3	83.3	83.3
Apparent Color (mg/L Pt-Co)	17.9	25.1	25.1	35.8	21.5	25.1
CDOM (µg/L)	101.3	108.1	79.8	101.3	84.0	94.9
Chlorophyll-a (µg/L)	3.7	1.5	1.8	2.2	1.4	2.1
Transparency (m)	VOB	VOB	VOB	VOB	VOB	VOB
Alkalinity (mg/L as $CaCO_3$)	23.8	22.9	25.0	19.4	24.6	23.1
Chloride (mg/L)	11.1	10.4	10.7	9.5	9.2	10.2
Sulfate (mg/L as SO_4)	1.9	1.9	1.8	1.9	1.8	1.9
Total Phosphorus (µg/L as P)	5.1	5.2	6.0	4.1	4.1	4.9
Nitrate-Nitrite (µg/L as N)	BDL	BDL	BDL	BDL	BDL	BDL
Ammonia (µg/L as NH_3-N)	BDL	BDL	BDL	BDL	34.7	BDL
Total Nitrogen (µg/L)	204.2	218.1	249.7	233.9	234.7	228.1
Dissolved Organic Carbon (mg/L)	3.7	3.7	3.6	3.8	3.8	3.7
Calcium (mg/L)	7.2	6.8	6.8	7.4	7.1	7.0
Sodium (mg/L)	6.5	6.8	6.6	6.8	6.6	6.7

Deep Hole- Halfway Point

Laboratory pH	6.3	6.8	7.4	7.3	6.6	6.9
Sp. Conductance (µS/cm @ 25°C)	78.6	81.4	81.2	81.7	82.6	81.1
Apparent Color (mg/L Pt-Co)	25.1	32.3	17.9	32.3	21.5	25.8
CDOM (µg/L)	109.1	93.5	83.5	107.7	79.5	94.6
Chlorophyll-a (µg/L)	3.4	1.6	1.2	2.1	1.8	2.0
Transparency (m)	4.8	5.8	6.1	5.8	6.6	5.8
Alkalinity (mg/L as $CaCO_3$)	21.8	22.5	23.2	20.7	23.6	22.4
Chloride (mg/L)	9.9	9.9	10.5	9.5	9.1	9.8
Sulfate (mg/L as SO_4)	1.9	2.0	1.7	1.9	1.8	1.8
Total Phosphorus (µg/L as P)	6.2	6.3	5.8	3.7	4.1	5.2
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)	230.2	217.7	258.5	236.7	178.3	224.3
Dissolved Organic Carbon (mg/L)	3.7	4.0	4.0	3.8	7.3	4.6
Calcium (mg/L)	6.7	7.3	6.9	6.4	6.9	6.9
Sodium (mg/L)	6.3	6.8	7.4	7.3	6.6	6.9