

Water Quality Report for May and June 2016 – Otter Pond, Sunapee

May 2016

pH: Deep Spot, Baptist Bk., Little Sunapee Bk., and Outlet pH levels were within the desirable range 6.5-8.0 units. Star Lake 2 and Inlet were slightly less than desirable. This is likely due to the lack of snowpack and spring snowmelt lowering the pH of tributaries and the lake in the spring.

Acid Neutralizing Capacity: Epilimnion ANC was in the moderately vulnerable range.

Total Phosphorus: Deep spot, Little Sunapee Bk. and Outlet phosphorus levels were less than 10 ug/L and considered within a low range. Baptist Bk., Star Lake Inlet and Star Lake 2 were between 10 – 20 ug/L and considered within an average range.

Conductivity: Most values exceed 100 uS/cm and are indicative of potential pollution sources in the watershed.

Turbidity: Deep spot and Outlet turbidities were low to average. Baptist Bk. and Star Lake Inlet were slightly above average. Little Sunapee Bk. and Star Lake 2 turbidities were slightly elevated.

Chlorophyll-a: Chlorophyll levels were very low.

Secchi Disk: Water clarity was within a historical average range for the pond.

June 2016

pH: Deep Spot, Baptist Bk., Little Sunapee Bk., and Outlet pH levels were within the desirable range 6.5-8.0 units. Star Lake 2 and Inlet were slightly less than desirable.

Acid Neutralizing Capacity: Epilimnion ANC was in the moderately vulnerable range.

Total Phosphorus: Deep spot, Baptist Bk., Little Sunapee Bk., and Outlet phosphorus levels were less than 10 ug/L and considered within a low range. Star Lake Inlet and Star Lake 2 were between 10 – 20 ug/L and considered within an average range.

Conductivity: Most values exceed 100 uS/cm and are indicative of potential pollution sources in the watershed. Star Lake 2 and Star Lake Inlet conductivity decreased from May and were less than 100 uS/cm potentially due to recent significant storm event flushing the tributary system.

Turbidity: Deep spot, Little Sunapee Bk., Outlet, and Star Lake Inlet turbidities were low to average. Baptist Bk. turbidity was slightly above average and Star Lake 2 turbidity were slightly elevated.

Chlorophyll-a: Chlorophyll levels increased to a “more than desirable” range in June.

Secchi Disk: Water clarity decreased (worsened) in June.

E. coli: Beach E. coli levels were much less than the state standard of 88 cts/100 mL.