

FARM LAKE

	Transparency (metres)	Phosphorus (micrograms/litre)	Chlorophyll (micrograms/litre)	Dissolved Organic Carbon (milligrams/litre)
2010	6.1	4.1	1.9	2.7
2011	5.3	5.3	2.5	3.0
2012	5.8	2.2	1.7	3.6
2013	5.6			
2014	5.3			
2015	5.8			
2016	5.2			
2017	4.8			
2018	5.3			
2019	5.3	3.8	1.3	4.3
2020	5.9	3.3	1.5	4.4

Brief Summary of 2020 Results

- Transparency of 5.9 metres characterizes clear water and indicates an oligo-mesotrophic state;
- Phosphorus level indicates that the lake is only slightly enriched by phosphorus (ultra-oligotrophic);
- Chlorophyll level shows a low biomass of microscopic algae in suspension (oligotrophic);
- Dissolved organic carbon level indicates that the water is coloured (from organic deposits) and this colour would affect the transparency of the water;
- Overall, Farm Lake is considered to be in an **oligotrophic** state with little or no signs of eutrophication. This is the second best out of the seven classifications of trophic levels.

The Government of Quebec uses a scale of 7 different classes along a spectrum from "ultra-oligotrophic", which indicates a lake of exceptional quality, to "hyper-eutrophic", which indicates a lake in serious trouble.

Seven Classifications of Trophic Level of Lakes:

- 1 = Ultra-oligotrophic (exceptionally good state)
- 2 = Oligotrophic
- 3 = Oligo-mesotrophic
- 4 = Mesotrophic
- 5 = Meso-eutrophic
- 6 = Eutrophic
- 7 = Hypereutrophic (extremely poor state)