

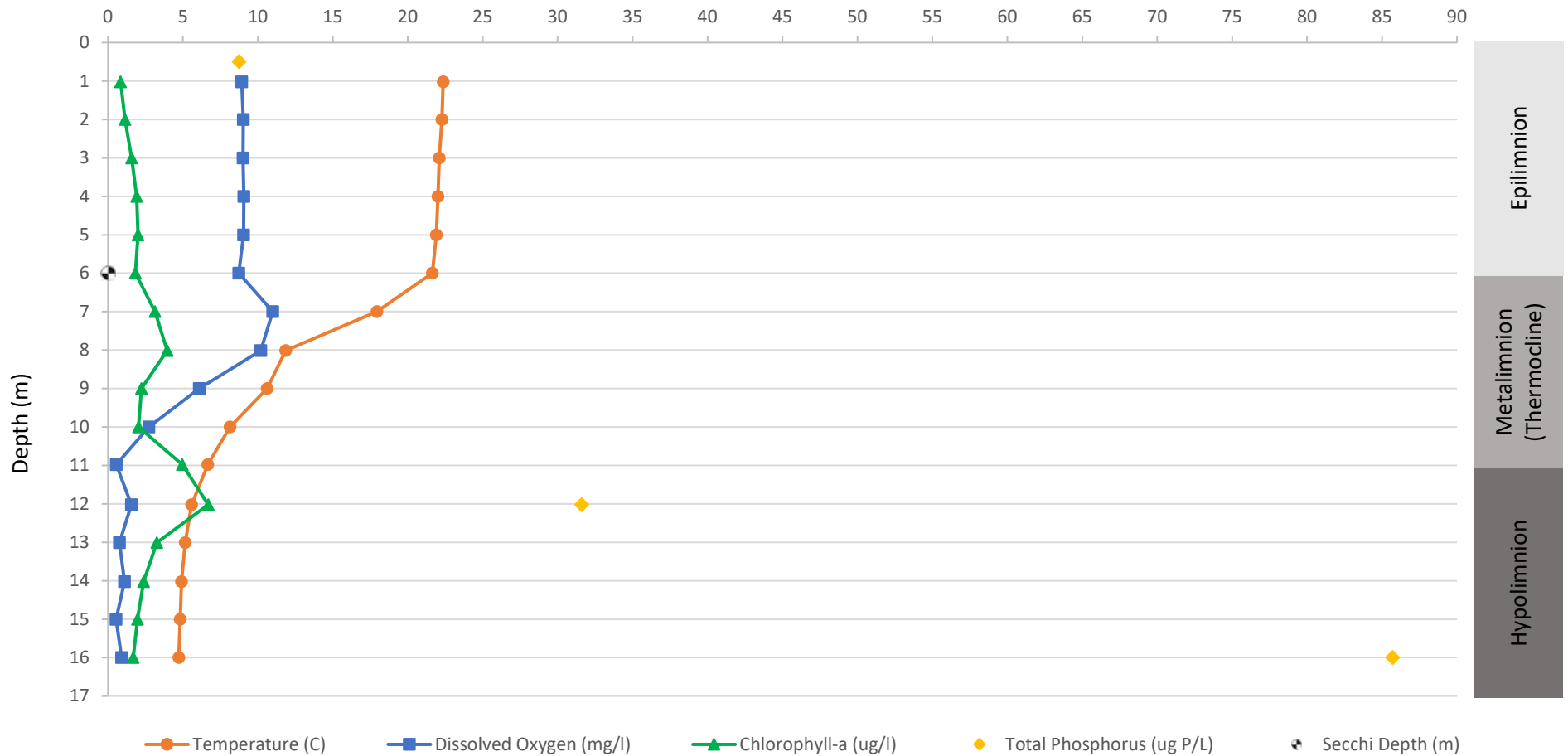
Lake Hortonia Station 1

Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total Phosphorus(ug P/L) TN=Total Nitrogen(mg/L)
 Al=Aluminum(ug/L) Ca=Calcium(mg/L) Cl=Chloride(mg/L) Fe=Iron(ug/L) Mg=Magnesium(mg/L) Mn=Manganese(ug/L) K=Potassium(mg/L)
 Na=Sodium(mg/L) TCH=Total Calculated Hardness(mg CaCO3/L)

Date	Depth(m)	Temp(C)	pH	Cond	DO%	DO	Chl-a	TP*	TN*	Al	Ca	Cl	Fe*	Mg	Mn*	K	Na	TCH
9/13/18	0.5							8.8	0.3	<20	29.1	16.7	<50	5.2	17.3	0.4	9.8	93.9
9/13/18	1.0	22.4	7.9	241.2	100.6	8.9	0.8											
9/13/18	2.0	22.3	7.9	240.9	101.6	9.0	1.1											
9/13/18	3.0	22.1	7.9	240.8	101.1	9.0	1.6											
9/13/18	4.0	22.0	7.9	240.8	101.5	9.1	1.9											
9/13/18	5.0	21.9	7.9	240.2	101.1	9.0	2.0											
9/13/18	6.0	21.7	7.9	238.7	97.2	8.7	1.8											
9/13/18	7.0	18.0	7.8	259.4	113.6	11.0	3.1											
9/13/18	8.0	11.9	7.6	267.4	92.3	10.2	4.0											
9/13/18	9.0	10.6	7.4	265.5	53.7	6.1	2.2											
9/13/18	10.0	8.2	7.3	274.4	22.7	2.7	2.0											
9/13/18	11.0	6.7	7.2	281.2	4.5	0.6	5.0											
9/13/18	12.0	5.6	7.1	295.4	12.2	1.6	6.7	31.6	0.4									
9/13/18	13.0	5.2	7.2	307.4	5.9	0.8	3.3											
9/13/18	14.0	4.9	7.2	310.8	8.4	1.1	2.4											
9/13/18	15.0	4.8	7.1	314.6	4.1	0.5	2.0											
9/13/18	16.0	4.7	7.1	317.8	6.9	0.9	1.7	85.7	1.4	<20	40.5	22.5	133.6	6.1	2158.9	0.6	13.7	126.5
5/31/17	1.0	17.8	8.2	263.9	98.4	8.9												
5/31/17	2.0	17.8	8.2	264.2	97.8	8.8												
5/31/17	2.9	17.7	8.2	264.3	98.1	8.9												
5/31/17	4.0	17.7	8.1	264.5	97.9	8.9												
5/31/17	5.0	17.5	8.1	261.4	98.0	8.9												
5/31/17	6.0	14.5	8.2	270.0	101.2	9.8												
5/31/17	7.0	12.4	8.1	271.8	99.4	10.1												
5/31/17	7.9	10.0	7.9	275.2	96.9	10.4												
5/31/17	9.0	8.1	7.7	276.5	85.2	9.6												
5/31/17	9.9	6.8	7.5	277.6	68.4	7.9												
5/31/17	10.9	6.1	7.3	278.0	57.8	6.8												
5/31/17	12.4	5.5	7.2	280.6	33.4	4.0												
5/31/17	13.2	5.5	7.0	309.3	8.9	1.1												

*Large increase in concentration from surface (0.5 m) to bottom (1 m above sediment) water indicates internal loading from sediments under anoxic conditions.

Lake Hortonia Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 9/13/2018



Anoxia in the hypolimnion and large increase in phosphorus concentration from surface (0.5 m) to bottom (1 m above sediment) water indicates internal loading from sediments. Note the chlorophyll-a (algae/cyanobacteria) maximum in the hypolimnion.

Lake Hortonia Station 1 Temperature and Dissolved Oxygen Vertical Profiles on 5/31/2017

