

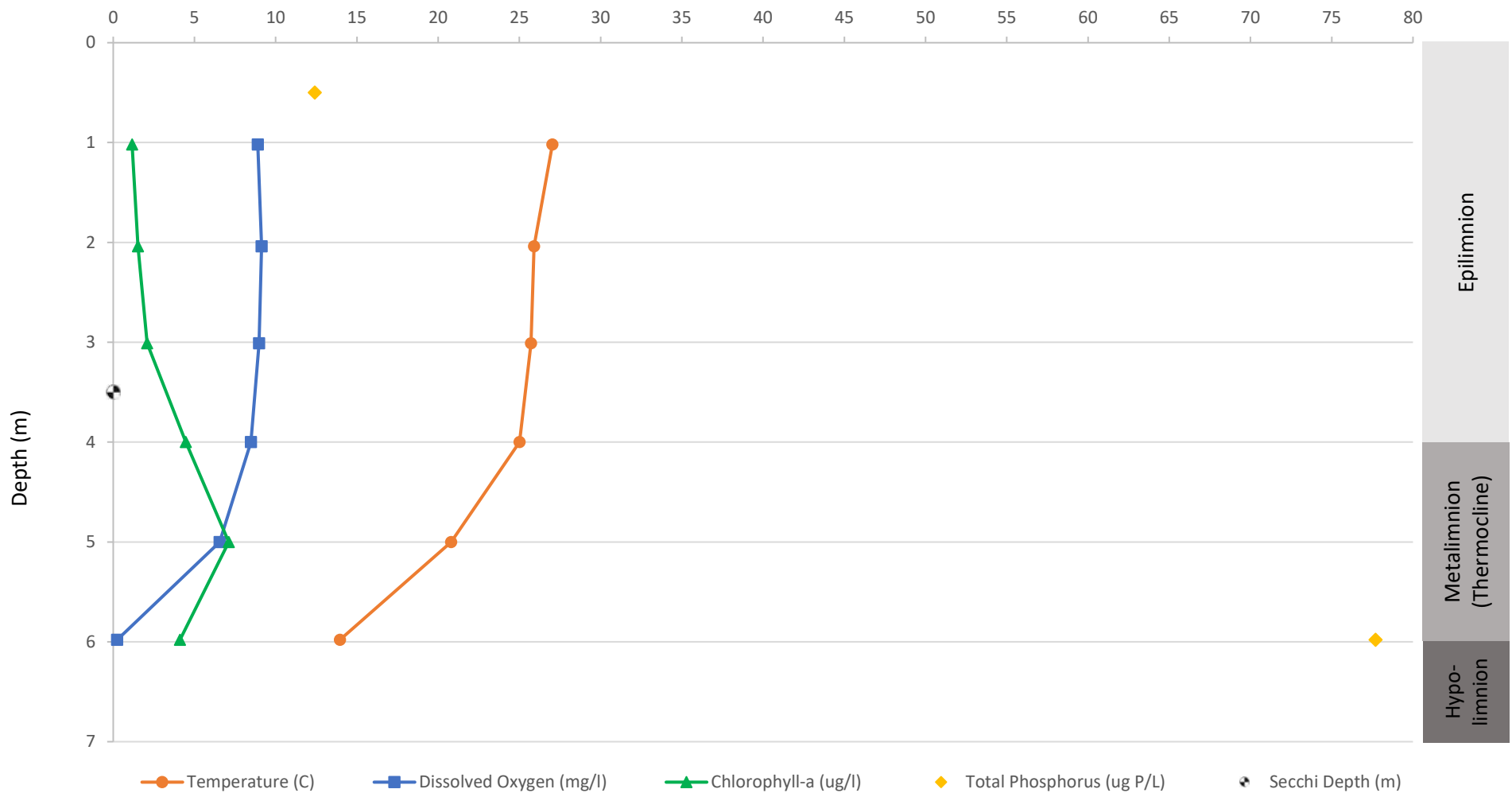
Indian Brook Reservoir Station 1

Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total Phosphorus(ug P/L) Al=Aluminum(ug/L)
 Ca=Calcium(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*	Al	Ca	Fe*	Mg	Mn*	K	Na	TCH
7/31/18	0.5							12.4	<20	13.9	<50	6.3	27.7	0.4	1.2	60.4
7/31/18	1.0	27.0	8.4	123.4	109.9	8.9	1.2									
7/31/18	2.0	25.9	8.5	124.6	110.7	9.1	1.5									
7/31/18	3.0	25.7	8.5	124.3	108.5	9.0	2.1									
7/31/18	4.0	25.0	8.3	124.2	101.1	8.5	4.5									
7/31/18	5.0	20.8	7.9	139.9	72.1	6.6	7.1									
7/31/18	6.0	14.0	7.4	161.9	2.3	0.2	4.1	77.7	<20	17.9	2552.0	7.2	3473.5	0.7	1.2	74.4

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

Indian Brook Reservoir Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 7/31/2018



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 metalimnion.