

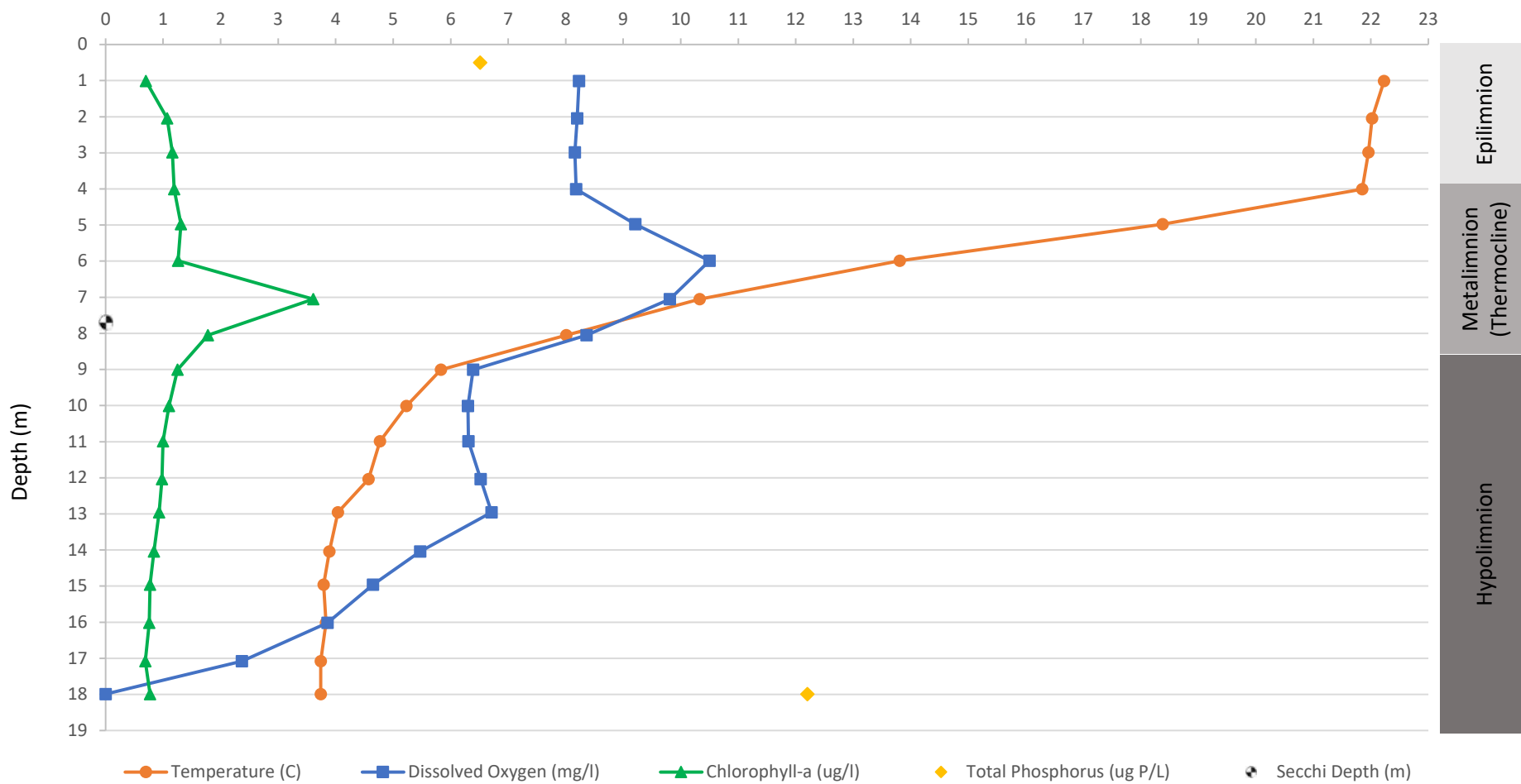
**South Pond (Eden) Station 1**

Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total Phosphorous(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
8/24/18	0.5							6.5	0.2	<20	2.8	<2	<50	1.0	10.7	0.2	0.4	10.9
8/24/18	1.0	22.2	7.3	24.0	95.0	8.2	0.7											
8/24/18	2.1	22.0	7.2	24.1	94.4	8.2	1.1											
8/24/18	3.0	22.0	7.2	24.1	93.8	8.2	1.2											
8/24/18	4.0	21.9	7.2	23.9	93.8	8.2	1.2											
8/24/18	5.0	18.4	7.1	21.7	98.6	9.2	1.3											
8/24/18	6.0	13.8	7.1	20.8	102.0	10.5	1.3											
8/24/18	7.1	10.3	7.0	21.2	88.1	9.8	3.6											
8/24/18	8.1	8.0	6.9	22.1	71.0	8.4	1.8											
8/24/18	9.0	5.8	6.7	23.2	51.4	6.4	1.3											
8/24/18	10.0	5.2	6.6	23.4	49.9	6.3	1.1											
8/24/18	11.0	4.8	6.6	23.6	49.3	6.3	1.0											
8/24/18	12.0	4.6	6.6	23.3	50.8	6.5	1.0											
8/24/18	13.0	4.0	6.6	24.0	51.5	6.7	0.9											
8/24/18	14.0	3.9	6.5	24.5	41.8	5.5	0.8											
8/24/18	15.0	3.8	6.4	24.7	35.4	4.7	0.8											
8/24/18	16.0	3.8	6.4	25.9	29.5	3.9	0.8											
8/24/18	17.1	3.7	6.3	27.4	18.1	2.4	0.7											
8/24/18	18.0	3.7	6.3	29.8	0.0	0.0	0.8	12.2	0.4	22.0	2.9	<2	192.0	1.0	141.4	0.2	0.4	11.5

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

South Pond (Eden) Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 8/24/2018



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.