

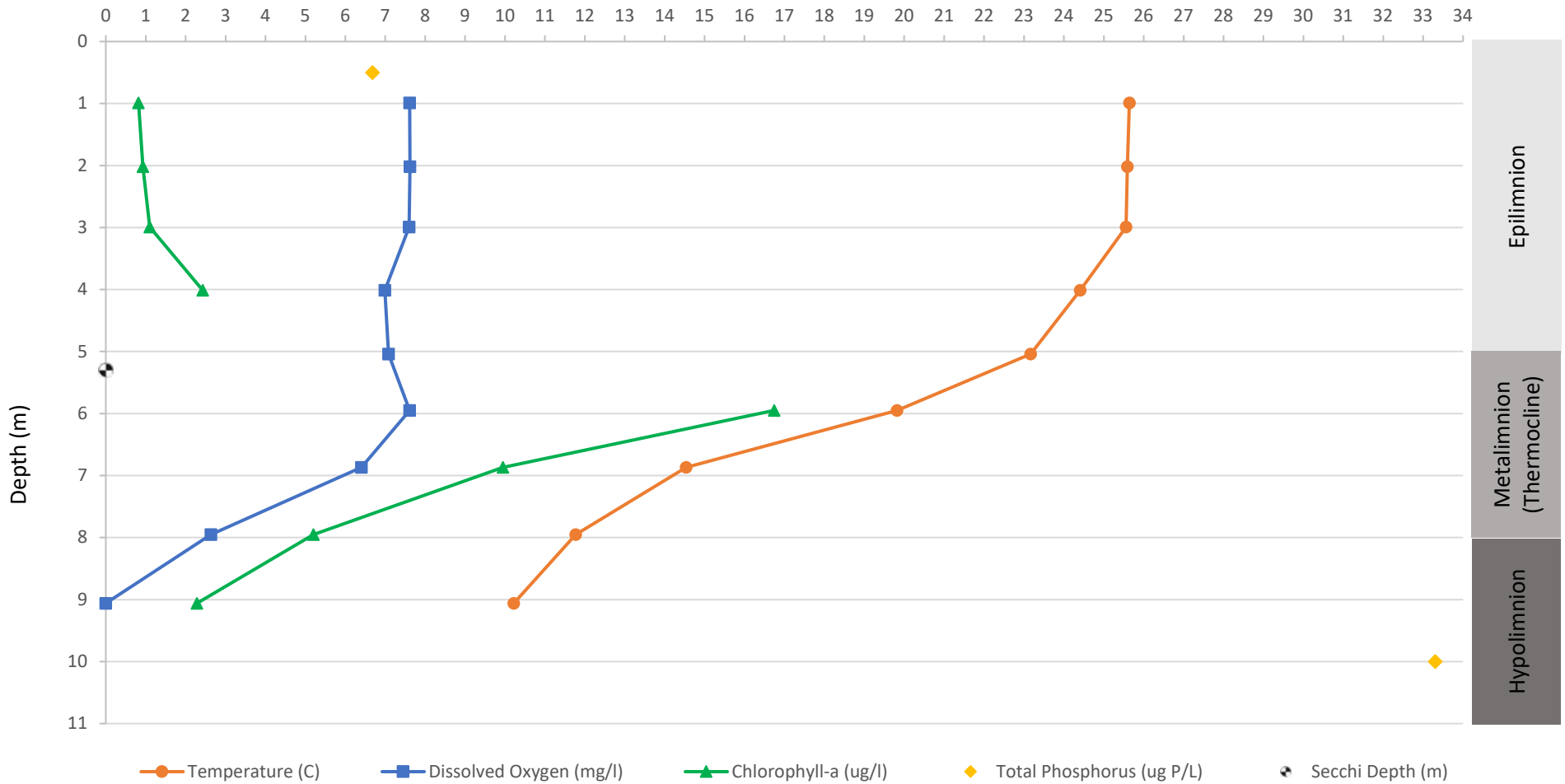
South Pond (Marlboro) Station 1

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) DIC=Dissolved Inorganic Carbon(mg/L) DOC=Dissolved Organic Carbon(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	DIC	DOC	Fe*	Mg	Mn*	K	Na	TCH
8/10/18	0.5							6.7	0.1	<20	1.3	<2	1.0	2.6	<50	0.3	18.4	0.3	0.7	4.9
8/10/18	1.0	25.6	6.4	14.7	96.0	7.6	0.8													
8/10/18	2.0	25.6	6.4	14.7	96.1	7.6	0.9													
8/10/18	3.0	25.6	6.4	14.9	95.8	7.6	1.1													
8/10/18	4.0	24.4	6.3	15.0	86.3	7.0	2.4													
8/10/18	5.0	23.2	6.2	15.1	85.3	7.1														
8/10/18	6.0	19.8	6.1	15.5	85.9	7.6	16.7													
8/10/18	6.9	14.5	6.1	16.0	64.8	6.4	10.0													
8/10/18	8.0	11.8	6.1	17.5	25.0	2.6	5.2													
8/10/18	9.1	10.2	6.2	26.3	0.0	0.0	2.3													
8/10/18	10.0							33.3	0.7	28.9	2.0	<2	3.9	2.9	3382.9	0.4	1694.0	0.4	0.8	6.8
5/30/17	0.5	15.1	6.0	11.4	91.6	9.1														
5/30/17	1.0	15.1	5.9	11.4	91.2	9.0														
5/30/17	2.0	15.1	5.9	11.4	91.2	9.1														
5/30/17	3.1	15.1	5.8	11.4	90.8	9.0														
5/30/17	3.4	15.1	5.9	11.4	90.6	9.0														
5/30/17	4.7	13.6	5.8	11.2	98.3	10.1														
5/30/17	5.9	11.6	5.8	11.4	92.5	9.9														
5/30/17	6.9	10.5	5.6	11.8	76.4	8.3														
5/30/17	7.9	8.8	5.5	13.1	59.8	6.9														

*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 (Marlboro) Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 8/10/2018



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.

South Pond (Marlboro) Station 1 Temperature and Dissolved Oxygen Vertical Profiles on 5/30/2017

