

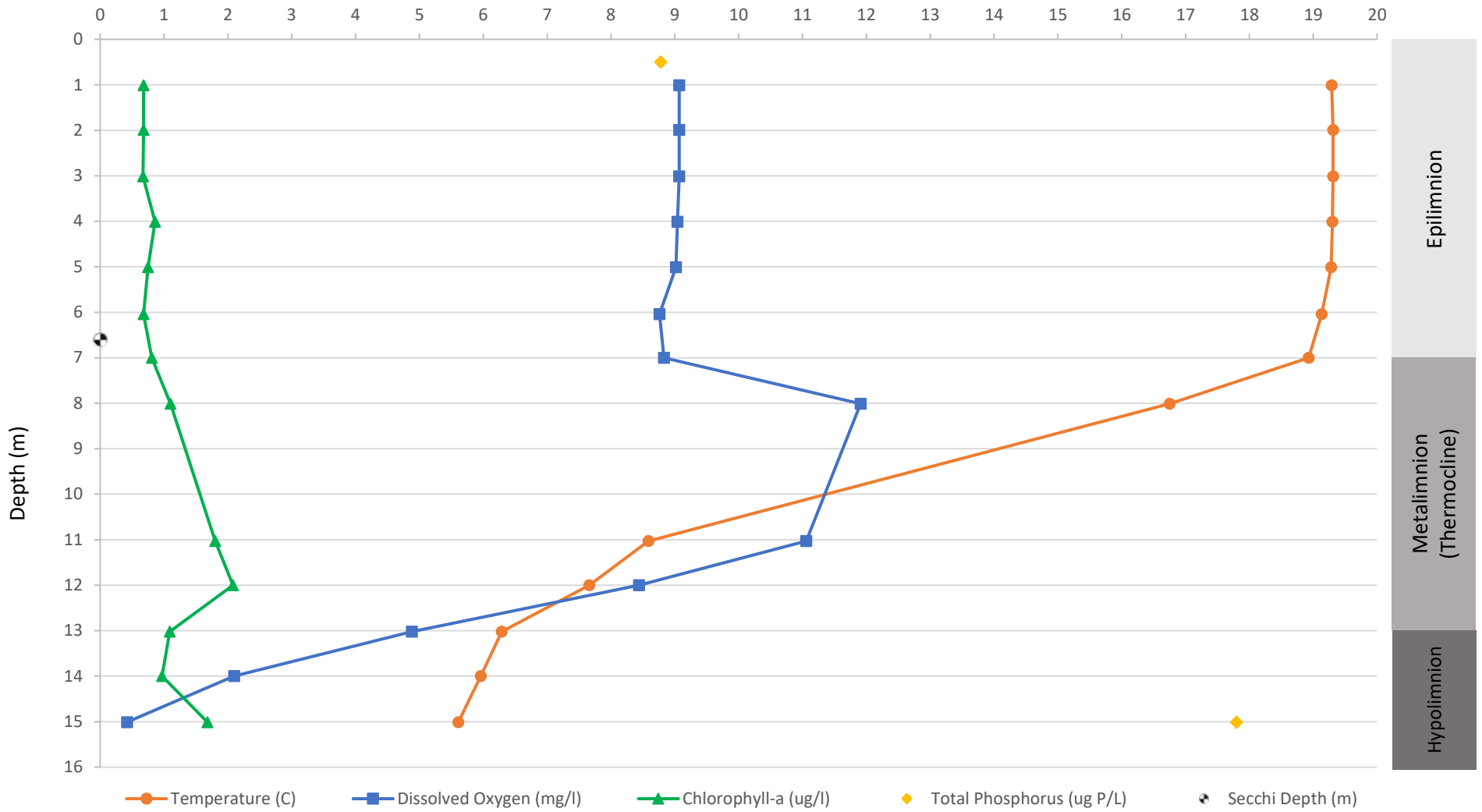
Berlin Pond Station 1

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
9/24/18	0.5							8.8	0.2	<20	33.6	34.0	<50	3.5	21.6	0.4	17.5	98.2
9/24/18	1.0	19.3	7.9	302.9	96.8	9.1	0.7											
9/24/18	2.0	19.3	7.9	302.7	96.8	9.1	0.7											
9/24/18	3.0	19.3	8.0	302.5	96.8	9.1	0.7											
9/24/18	4.0	19.3	8.0	302.4	96.5	9.0	0.9											
9/24/18	5.0	19.3	8.0	302.5	96.2	9.0	0.8											
9/24/18	6.0	19.1	7.9	303.0	93.1	8.8	0.7											
9/24/18	7.0	18.9	7.9	303.5	93.5	8.8	0.8											
9/24/18	8.0	16.8	7.9	308.0	120.6	11.9	1.1											
9/24/18	11.0	8.6	7.8	318.5	93.2	11.1	1.8											
9/24/18	12.0	7.7	7.7	321.8	69.5	8.4	2.1											
9/24/18	13.0	6.3	7.6	331.8	38.9	4.9	1.1											
9/24/18	14.0	6.0	7.5	335.5	16.6	2.1	1.0											
9/24/18	15.0	5.6	7.4	344.5	3.3	0.4	1.7	17.8	0.3	<20	41.2	33.8	110.3	3.6	966.4	0.4	17.4	117.9
7/18/17	0.5	22.8	8.1	330.5	100.6	8.4		6.0										
7/18/17	1.0	22.6	8.1	330.7	100.3	8.4												
7/18/17	2.0	22.3	8.0	330.5	100.5	8.4												
7/18/17	3.0	22.2	8.0	330.8	99.9	8.4												
7/18/17	4.0	21.6	7.8	344.8	94.6	8.0												
7/18/17	5.0	20.5	7.6	354.5	83.4	7.2												
7/18/17	6.0	18.0	7.5	372.0	82.0	7.5												
7/18/17	7.0	13.7	7.8	362.6	98.9	9.9												
7/18/17	8.0	11.8	7.7	363.2	95.0	9.9												
7/18/17	9.0	10.2	7.7	366.3	91.6	9.9												
7/18/17	10.0	8.7	7.6	371.7	86.0	9.6												
7/18/17	11.0	8.0	7.6	374.8	80.0	9.1												
7/18/17	12.0	7.5	7.5	376.8	72.4	8.4												
7/18/17	13.0	6.9	7.4	378.9	62.9	7.4												
7/18/17	14.0	6.5	7.4	380.8	55.4	6.6												
7/18/17	15.0	6.3	7.3	382.3	46.6	5.6												

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

Berlin Pond Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 9/24/2018



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.

Berlin Pond Station 1 Temperature and Dissolved Oxygen Profiles on 7/18/2017

