

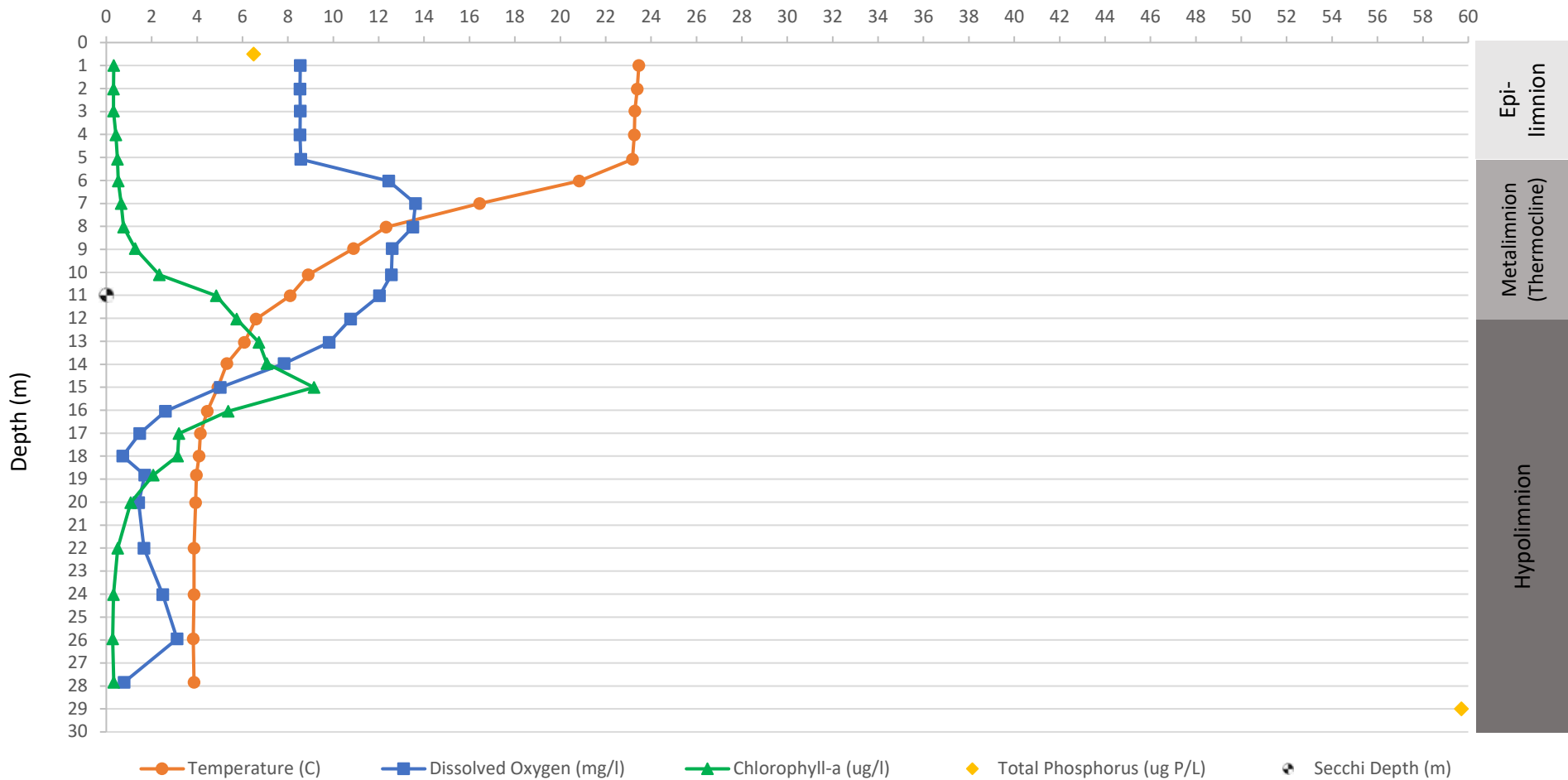
Forest Lake Station 1

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
9/7/18	0.5							6.5	0.1	<20	20.2	<2	<50	1.9	<5	0.2	0.8	58.3
9/7/18	1.0	23.5	7.7	132.6	100.6	8.6	0.3											
9/7/18	2.0	23.4	7.8	132.2	100.2	8.5	0.3											
9/7/18	3.0	23.3	7.8	132.4	100.1	8.5	0.3											
9/7/18	4.0	23.3	7.8	132.5	100.0	8.5	0.4											
9/7/18	5.1	23.2	7.8	132.4	100.3	8.6	0.5											
9/7/18	6.0	20.8	7.9	126.1	139.1	12.4	0.5											
9/7/18	7.0	16.5	7.9	125.1	139.3	13.6	0.7											
9/7/18	8.0	12.3	7.9	128.5	126.3	13.5	0.8											
9/7/18	9.0	10.9	7.8	128.4	114.0	12.6	1.3											
9/7/18	10.1	8.9	7.7	131.4	108.4	12.6	2.3											
9/7/18	11.0	8.1	7.7	130.6	101.9	12.0	4.9											
9/7/18	12.0	6.6	7.6	133.8	87.8	10.8	5.7											
9/7/18	13.1	6.1	7.4	134.7	79.1	9.8	6.7											
9/7/18	14.0	5.3	7.3	135.4	61.9	7.8	7.1											
9/7/18	15.0	4.9	7.3	136.1	39.3	5.0	9.2											
9/7/18	16.1	4.5	7.1	137.7	20.2	2.6	5.4											
9/7/18	17.0	4.1	7.1	138.4	11.3	1.5	3.2											
9/7/18	18.0	4.1	7.1	139.5	5.5	0.7	3.1											
9/7/18	18.8	4.0	7.0	140.2	12.9	1.7	2.1											
9/7/18	20.0	3.9	7.0	140.8	10.8	1.4	1.1											
9/7/18	22.0	3.9	7.0	143.5	12.6	1.7	0.5											
9/7/18	24.0	3.9	7.0	150.1	19.0	2.5	0.3											
9/7/18	26.0	3.8	7.0	159.1	23.7	3.1	0.3											
9/7/18	27.8	3.9	7.0	171.3	6.0	0.8	0.3											
9/7/18	29.0	3.9	6.9	198.2	13.0	1.7	0.0	59.7	0.7	<20	24.3	<2	945.5	2.3	4604.3	0.4	1.0	70.0

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

Forest Lake (Nelson Pond) Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 9/7/2018



*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.